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

Revision date / version: 02.11.2022 / 0007

Replacing version dated / version: 01.11.2021 / 0006

Valid from: 02.11.2022 PDF print date: 02.11.2022

TEMPEX ECO

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

TEMPEX ECO

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

Basic cleaner

Uses advised against:

No information available at present.

1.3 Details of the supplier of the safety data sheet

DR.SCHNELL GmbH & Co. KGaA

Taunusstr. 19 80807 München Tel.: 089/350608-0 Fax: 089/350608-47

Email: info@dr-schnell.com

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 (DR.SCHNELL)

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

Eye Dam. 1 H318-Causes serious eye damage.

2.2 Label elements

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





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H318-Causes serious eye damage.

P280-Wear 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-phenoxyethanol Sodium isoalkyl sulfate Isotridecanol, ethoxylated

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

OLE MIXEGO	
2-phenoxyethanol	
Registration number (REACH)	01-2119488943-21-XXXX
Index	603-098-00-9
EINECS, ELINCS, NLP, REACH-IT List-No.	204-589-7
CAS	122-99-6
content %	5-15
Classification according to Regulation (EC) 1272/2008 (CLP), M-	Acute Tox. 4, H302
factors	Eye Dam. 1, H318
	STOT SE 3, H335
Specific Concentration Limits and ATE	ATE (oral): 1394 mg/kg

2-(2-butoxyethoxy)ethanol	Substance for which an EU exposure limit value applies.
Registration number (REACH)	01-2119475104-44-XXXX
Index	603-096-00-8
EINECS, ELINCS, NLP, REACH-IT List-No.	203-961-6
CAS	112-34-5
content %	1-10
Classification according to Regulation (EC) 1272/2008 (CLP), M-	Eye Irrit. 2, H319
factors	

Isotridecanol, ethoxylated	
Registration number (REACH)	
Index	
EINECS, ELINCS, NLP, REACH-IT List-No.	931-138-8
CAS	69011-36-5
content %	1-5
Classification according to Regulation (EC) 1272/2008 (CLP), M-	Acute Tox. 4, H302
factors	Eye Dam. 1, H318
Specific Concentration Limits and ATE	Eye Dam. 1, H318: >10 %

3-butoxypropan-2-ol	



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Registration number (REACH)	01-2119475527-28-XXXX
Index	603-052-00-8
EINECS, ELINCS, NLP, REACH-IT List-No.	225-878-4
CAS	5131-66-8
content %	1-5
Classification according to Regulation (EC) 1272/2008 (CLP), M-	Skin Irrit. 2, H315
factors	Eye Irrit. 2, H319

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-	Eye Irrit. 2, H319
factors	

Sodium isoalkyl sulfate	
Registration number (REACH)	01-2119971586-23-XXXX
Index	
EINECS, ELINCS, NLP, REACH-IT List-No.	204-812-8
CAS	126-92-1
content %	1-2,5
Classification according to Regulation (EC) 1272/2008 (CLP), M-	Skin Irrit. 2, H315
factors	Eye Dam. 1, H318
Specific Concentration Limits and ATE	Eye Dam. 1, H318: >=20 %
	Eye Irrit. 2, H319: >=10 %

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.

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

4.3 Indication of any immediate medical attention and special treatment needed

Symptomatic treatment.



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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

None known

5.2 Special hazards arising from the substance or mixture

In case of fire the following can develop:

Oxides of carbon

Oxides of sulphur

Oxides of nitrogen

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

Full protection, if necessary.

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, sawdust) and dispose of according to Section 13.

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.



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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 product closed and only in original packing.

Not to be stored in gangways or stair wells.

Store at room temperature.

7.3 Specific end use(s)

No information available at present.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

© Chemical Name	2-(2-butoxyethoxy)ethanol		
WEL-TWA: 10 ppm (67,5 mg/m	3) (WEL, EU)	WEL-STEL:	15 ppm (101,2 mg/m3) (WEL, EU)	
Monitoring procedures:		-		
BMGV:			Other information:	

Area of application	Exposure route /	Effect on health	Descripto	Value	Unit	Note
• •	Environmental		r			
	compartment					
	Environment - soil		PNEC	1,26	mg/kg	
	Environment - sewage		PNEC	24,8	mg/l	
	treatment plant					
	Environment - sediment,		PNEC	0,7237	mg/kg	
	marine					
	Environment - marine		PNEC	0,0943	mg/l	
	Environment - sediment, freshwater		PNEC	7,2366	mg/kg	
	Environment - freshwater		PNEC	0,943	mg/l	
	Environment - water, sporadic (intermittent) release		PNEC	3,44	mg/l	
Consumer	Human - oral	Long term, systemic effects	DNEL	9,23	mg/kg bw/day	
Consumer	Human - oral	Short term, systemic effects	DNEL	9,23	mg/kg bw/day	
Consumer	Human - inhalation	Long term, local effects	DNEL	2,41	mg/m3	
Consumer	Human - inhalation	Short term, local effects	DNEL	2,41	mg/m3	
Consumer	Human - dermal	Long term, systemic effects	DNEL	10,42	mg/kg bw/day	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	20,83	mg/kg bw/day	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	5,7	mg/m3	
Workers / employees	Human - inhalation	Long term, local effects	DNEL	5,7	mg/m3	

2-(2-butoxyethoxy)ethanol



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Area of application	Exposure route / Environmental compartment	Effect on health	Descripto r	Value	Unit	Note
	Environment - marine		PNEC	0,11	mg/l	
	Environment - water, sporadic (intermittent) release		PNEC	11	mg/l	
	Environment - sediment, freshwater		PNEC	4,4	mg/kg	
	Environment - sediment, marine		PNEC	0,44	mg/kg	
	Environment - soil		PNEC	0,32	mg/kg	
	Environment - sewage treatment plant		PNEC	100	mg/l	
	Environment - oral (animal feed)		PNEC	56	mg/kg	
Consumer	Human - inhalation	Short term, local effects	DNEL	60,7	mg/m3	
Consumer	Human - dermal	Long term, systemic effects	DNEL	50	mg/kg bw/d	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	40,5	mg/m3	
Consumer	Human - oral	Long term, systemic effects	DNEL	5	mg/kg bw/d	
Consumer	Human - oral	Long term, systemic effects	DNEL	6,25	mg/kg bw/d	
Consumer	Human - inhalation	Long term, local effects	DNEL	40,5	mg/m3	
Workers / employees	Human - oral	Long term, local effects	DNEL	67,5	mg/m3	
Workers / employees	Human - dermal	Short term, systemic effects	DNEL	89	mg/kg bw/d	
Workers / employees	Human - inhalation	Long term, local effects	DNEL	67,5	mg/m3	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	20	mg/kg	
Workers / employees	Human - inhalation	Short term, local effects	DNEL	101,2	mg/m3	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	67,5	mg/m3	

3-butoxypropan-2-ol						
Area of application	Exposure route /	Effect on health	Descripto	Value	Unit	Note
	Environmental		r			
	compartment					
	Environment - freshwater		PNEC	0,525	mg/l	
	Environment - marine		PNEC	0,0525	mg/l	
	Environment - periodic		PNEC	5,25	mg/l	
	release					
	Environment - sewage		PNEC	10	mg/l	
	treatment plant					
	Environment - sediment,		PNEC	2,36	mg/kg dry	
	freshwater				weight	
	Environment - sediment,		PNEC	0,236	mg/kg dry	
	marine				weight	
	Environment - soil		PNEC	0,16	mg/kg dry	
					weight	
Consumer	Human - oral	Long term, systemic	DNEL	8,75	mg/kg	
		effects			bw/d	



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Consumer	Human - dermal	Short term, local effects	DNEL	50	% (w/w)	
Consumer	Human - inhalation	Short term, local effects	DNEL	50	% (w/w)	
Consumer	Human - dermal	Long term, systemic effects	DNEL	16	mg/kg	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	33,8	mg/m3	
Consumer	Human - dermal	Long term, local effects	DNEL	50	% (w/w)	
Workers / employees	Human - dermal	Short term, local effects	DNEL	50	% (w/w)	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	147	mg/m3	
Workers / employees	Human - oral	Long term, systemic effects	DNEL	8,75	mg/kg	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	44	mg/kg bw/day	

Area of application	Exposure route / Environmental	Effect on health	Descripto r	Value	Unit	Note
	compartment					
	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	

Area of application	Exposure route / Environmental compartment	Effect on health	Descripto r	Value	Unit	Note
	Environment - freshwater		PNEC	0,1357	mg/l	
	Environment - marine		PNEC	0,01357	mg/l	
	Environment - sporadic (intermittent) release		PNEC	4,83	mg/l	



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	Environment - sewage treatment plant		PNEC	1,35	mg/l
	Environment - sediment, freshwater		PNEC	1,5	mg/kg dw
	Environment - sediment, marine		PNEC	0,15	mg/kg dw
	Environment - soil		PNEC	0,22	mg/kg dw
Consumer	Human - inhalation	Long term, systemic effects	DNEL	85	mg/m3
Consumer	Human - dermal	Long term, systemic effects	DNEL	2440	mg/kg bw/d
Consumer	Human - oral	Long term, systemic effects	DNEL	24	mg/kg bw/d
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	285	mg/m3
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	4060	mg/kg bw/d

- 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:

Chemical resistant protective gloves (EN ISO 374).

If applicable

Protective gloves in butyl rubber (EN ISO 374).

Protective Neoprene® / polychloroprene gloves (EN ISO 374).

Protective nitrile gloves (EN ISO 374).

Protective PVC gloves (EN ISO 374).



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Minimum layer thickness in mm:

Permeation time (penetration time) in minutes:

480

Protective hand cream recommended.

The breakthrough times determined in accordance with EN 16523-1 were not obtained under practical conditions.

The recommended maximum wearing time is 50% of breakthrough time.

Skin protection - Other:

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

Respiratory protection:

Normally not necessary.

If OES or MEL is exceeded.

Gas mask filter A (EN 14387), code colour brown

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: 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: 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:

Kinematic viscosity: There is no information available on this parameter.

Solubility: Partition coefficient n-octanol/water (log value): Does not apply to mixtures.

There is no information available on this parameter. Vapour pressure:

Density and/or relative density: 1,03 g/ml (20°C)

Relative vapour density: There is no information available on this parameter.

Particle characteristics: Does not apply to liquids.

9.2 Other information

Explosives: Product is not explosive.

Oxidising liquids:

SECTION 10: Stability and reactivity

Mixable



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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

None known

10.5 Incompatible materials

Avoid contact with strong oxidizing agents.

Avoid contact with strong acids.

10.6 Hazardous decomposition products

No decomposition when used as directed.

SECTION 11: Toxicological information

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

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

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

2-phenoxyethanol						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	ATE	1394	mg/kg			
Acute toxicity, by dermal route:	LD50	2214	mg/kg	Rabbit		
Acute toxicity, by inhalation:	LD50	>1	mg/l/6h	Rat		Mist, Maximum achievable concentration.
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)
Respiratory or skin sensitisation:				Human being		Negative



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Germ cell mutagenicity:				Salmonella typhimurium	OECD 471 (Bacterial Reverse Mutation Test)	Negative
Germ cell mutagenicity:				Rat	OECD 475 (Mammalian Bone Marrow Chromosome Aberration Test)	Negative
Germ cell mutagenicity:					OECD 473 (In Vitro Mammalian Chromosome Aberration Test)	Negative Chinese hamster
Germ cell mutagenicity:					OECD 476 (In Vitro Mammalian Cell Gene Mutation Test)	Negative Chinese hamster
Germ cell mutagenicity:				Mouse	OECD 474 (Mammalian Erythrocyte Micronucleus Test)	Negative
Germ cell mutagenicity:				Rat	OECD 486 (Unscheduled DNA Synthesis (UDS) Test with Mammalian Liver Cells In Vivo)	Negative
Reproductive toxicity:	NOAEL	~ 375	mg/kg bw/d	Mouse	,	
Reproductive toxicity (Developmental toxicity):		1000	mg/kg	Rat	OECD 414 (Prenatal Developmental Toxicity Study)	Negative
Specific target organ toxicity - repeated exposure (STOT- RE):	LDLo	>500	mg/kg	Rabbit		
Specific target organ toxicity - repeated exposure (STOT- RE):	LDLo	>80	mg/kg	Rat		
Specific target organ toxicity - repeated exposure (STOT-RE), oral:	NOAEL	400	mg/kg/d	Rat		
Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.:	NOAEL	0,0482	mg/l	Rat	OECD 412 (Subacute Inhalation Toxicity - 28-Day Study)	Target organ(s): respiratory organs
Symptoms:						respiratory distress, diarrhoea, heart/circulatory disorders, coughing, headaches, gastrointestinal disturbances, fatigue, mucous membrane irritation, nausea and vomiting., forgetfulness
Specific target organ toxicity - repeated exposure (STOT-RE), oral:	NOAEL	700	mg/kg bw/d	Rat	OECD 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)	90ď



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2-(2-butoxyethoxy)ethanol 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 oral route:	LD50	2410	mg/kg	Mouse	OECD 401 (Acute Oral Toxicity)	fasted animals
Acute toxicity, by dermal route:	LD50	2764	mg/kg	Rabbit	OECD 402 (Acute Dermal Toxicity)	
Acute toxicity, by inhalation:	LC50	>29	ppm	Rat	OECD 403 (Acute Inhalation Toxicity)	Dusts or mist
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:				Salmonella typhimurium	OECD 471 (Bacterial Reverse Mutation Test)	Negative
Germ cell mutagenicity:					OEĆD 473 (In Vitro Mammalian Chromosome Aberration Test)	Negative Chinese hamster
Germ cell mutagenicity:				Mouse	OECD 475 (Mammalian Bone Marrow Chromosome Aberration Test)	Negative
Germ cell mutagenicity:					OECD 476 (In Vitro Mammalian Cell Gene Mutation Test)	Negative Chinese hamster
Reproductive toxicity:		1000	mg/kg	Rat	OECD 414 (Prenatal Developmental Toxicity Study)	Negative, Analogous conclusion
Aspiration hazard:					i committy cradity	No
Symptoms:						breathing difficulties, respiratory distress, diarrhoea, coughing, mucous membrane irritation, dizziness, watering eyes, nausea
Specific target organ toxicity - repeated exposure (STOT-RE), oral:	NOAEL	250	mg/kg	Rat		
Specific target organ toxicity - repeated exposure (STOT- RE), dermal:	NOAEL	< 200	mg/kg bw/d	Rat	OECD 411 (Subchronic Dermal Toxicity - 90-day Study)	Male
Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.:	NOAEL	14	ppm	Rat		Vapours

Isotridecanol, ethoxylated						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes



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Acute toxicity, by oral route:	LD50	>300-2000	mg/kg	Rat		References
Acute toxicity, by dermal	LD50	>2000	mg/kg	Rat		References
route:						
Skin corrosion/irritation:				Rabbit		Not irritant,
						References
Serious eye				Rabbit		Eye Dam.
damage/irritation:						1>10% solution
Respiratory or skin				Guinea pig		Negative,
sensitisation:						References
Germ cell mutagenicity:					OECD 471 (Bacterial	Negative,
					Reverse Mutation	References
					Test)	
Reproductive toxicity:	NOAEL	>250	mg/kg	Rat	OECD 416 (Two-	References
			bw/d		generation	
					Reproduction Toxicity	
					Study)	
Aspiration hazard:						No
Specific target organ toxicity -	NOAEL	50	mg/kg	Rat		Target
repeated exposure (STOT-			bw/d			organ(s): heart
RE), oral:						Target
						organ(s): liver,
						Target
						organ(s):
						kidneys,
						References

Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	3300	mg/kg	Rat	OECD 401 (Acute	
					Oral Toxicity)	
Acute toxicity, by dermal	LD50	>2000	mg/kg	Rat	OECD 402 (Acute	
route:					Dermal Toxicity)	
Acute toxicity, by inhalation:	LD0	>3,5	mg/l/4h	Rat	OECD 403 (Acute	Vapours
					Inhalation Toxicity)	
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute	Skin Irrit. 2
					Dermal	
					Irritation/Corrosion)	
Serious eye				Rabbit	OECD 405 (Acute	Eye Irrit. 2
damage/irritation:					Eye	
					Irritation/Corrosion)	
Respiratory or skin				Guinea pig	OECD 406 (Skin	No (skin
sensitisation:					Sensitisation)	contact)
Germ cell mutagenicity:					OECD 471 (Bacterial	Negative
					Reverse Mutation	
					Test)	
Germ cell mutagenicity:					OECD 473 (In Vitro	Negative
					Mammalian	
					Chromosome	
					Aberration Test)	
Germ cell mutagenicity:					OECD 476 (In Vitro	Negative
					Mammalian Cell Gene	
					Mutation Test)	
Carcinogenicity:						Negative
Reproductive toxicity					OECD 414 (Prenatal	Negative
(Developmental toxicity):					Developmental	
					Toxicity Study)	
Reproductive toxicity (Effects					OECD 416 (Two-	Negative,
on fertility):					generation	Analogous
					Reproduction Toxicity	conclusion
					Study)	
Aspiration hazard:						No



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Symptoms:					headaches, gastrointestinal disturbances, nausea
Specific target organ toxicity - repeated exposure (STOT-RE), oral:	NOAEL	350	mg/kg	Rat	
Specific target organ toxicity - repeated exposure (STOT- RE), dermal:	NOAEL	880	mg/kg	Rat	
Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.:	NOAEL	>700	ppm	Rat	Vapours

	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/Carcinogenicit y 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/Develop mental 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)			



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Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	2840	mg/kg	Rat	OECD 401 (Acute	Analogous
					Oral Toxicity)	conclusion
Acute toxicity, by dermal	LD50	> 2000	mg/kg	Rat	OECD 402 (Acute	
route:					Dermal Toxicity)	
Acute toxicity, by inhalation:	LC50	>5	mg/l/4h			Dust, Mist
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute	Skin Irrit. 2
					Dermal	
					Irritation/Corrosion)	
Serious eye				Rabbit	OECD 405 (Acute	Eye Dam. 1
damage/irritation:					Eye	_
G					Irritation/Corrosion)	
Respiratory or skin				Mouse	OECD 429 (Skin	No (skin
sensitisation:					Sensitisation - Local	contact).
					Lymph Node Assay)	Analogous
						conclusion
Germ cell mutagenicity:				Salmonella	OECD 471 (Bacterial	Negative
,-				typhimurium	Reverse Mutation	110941110
				тургшпапап	Test)	
Germ cell mutagenicity:				Mammalian	OECD 473 (In Vitro	NegativeChines
Com con matagornoity.				Warminanan	Mammalian	e hamster
					Chromosome	o namotor
					Aberration Test)	
Germ cell mutagenicity:				Mouse	OECD 476 (In Vitro	Negative
Germ cen matagementy.				Wiodse	Mammalian Cell Gene	INEGATIVE
					Mutation Test)	
Carcinogenicity:	TCLo	>1125	mg/kg	Rat	OECD 453	Negative,
Carcinogenicity.	TOLO	>1125	ilig/kg	Nai	(Combined Chronic	Analogous
					Toxicity/Carcinogenicit	conclusion
					y Studies)	CONCIUSION
Reproductive toxicity	NOAEL	250	ma/ka	Rat	OECD 414 (Prenatal	Negative,
	NOAEL	250	mg/kg	Rai		
(Developmental toxicity):					Developmental	Analogous
	110151	400		5 112	Toxicity Study)	conclusion
Specific target organ toxicity -	NOAEL	488	mg/kg	Rabbit	OECD 408 (Repeated	
repeated exposure (STOT-					Dose 90-Day Oral	
RE), oral:					Toxicity Study in	
					Rodents)	
Specific target organ toxicity -	NOAEL	400	mg/kg	Mouse	OECD 411	
repeated exposure (STOT-					(Subchronic Dermal	
RE), dermal:					Toxicity - 90-day	
					Study)	

11.2. Information on other hazards

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

SECTION 12: Ecological information

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

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Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:							n.d.a.
12.1. Toxicity to							n.d.a.
daphnia:							
12.1. Toxicity to algae:							n.d.a.
12.2. Persistence and							The
degradability:							surfactant(s)
degradability.							contained in
							this mixture
							complies(compl
							y) 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.
12.7. Other adverse							No information
effects:							available on
							other adverse
							effects on the
							environment.
Other information:							DOC-
Other information.							
							elimination
							degree(complex
							ing organic
							substance)>=
							80%/28d: Yes

2-phenoxyethanol											
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes				
12.1. Toxicity to	LOEC/LOEL	21d	22,5	mg/l	Daphnia magna						
daphnia:											
12.2. Persistence and		15d	>90	%		OECD 301 A	Readily				
degradability:						(Ready	biodegradable				
						Biodegradability -					
						DOC Die-Away					
						Test)					



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12.3. Bioaccumulative potential:	BCF		0,35			OECD 305 (Bioconcentration - Flow-Through Fish Test)	
12.3. Bioaccumulative potential:	Log Kow		1,16			OECD 107 (Partition Coefficient (n- octanol/water) - Shake Flask Method)	
Other information:							Does not contain any organically bound halogens which can contribute to the AOX value in waste water.
12.1. Toxicity to fish:	NOEC/NOEL	34d	23	mg/l	Pimephales promelas	OECD 210 (Fish, Early-Life Stage Toxicity Test)	
12.1. Toxicity to fish:	LC50	96h	>100	mg/l	Brachydanio rerio	OEĆD 203 (Fish, Acute Toxicity Test)	
12.1. Toxicity to fish:	LC50	96h	344	mg/l	Pimephales promelas	OECD 203 (Fish, Acute Toxicity Test)	
12.1. Toxicity to daphnia:	NOEC/NOEL	21d	9,43	mg/l	Daphnia magna	OECD 211 (Daphnia magna Reproduction 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	OEĆD 201 (Alga, Growth Inhibition Test)	
12.2. Persistence and degradability:		28d	>90	%		OECD 301 F (Ready Biodegradability - Manometric Respirometry Test)	Readily biodegradable
12.3. Bioaccumulative potential:	Log Pow		1,2			OECD 107 (Partition Coefficient (n- octanol/water) - Shake Flask Method)	A notable biological accumulation potential is not to be expected (LogPow 1-3). 23°C
12.4. Mobility in soil:	pOC		0-50				
12.4. Mobility in soil:	H (Henry)		0,00000 02	atm*m3/ mol			
12.4. Mobility in soil:	Koc		40,74	71101			High
12.5. Results of PBT and vPvB assessment							No PBT substance, No vPvB substance



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Toxicity to bacteria:	EC20	30min	~620	mg/l	activated sludge	OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation))
Toxicity to bacteria:	EC50	17h	880	mg/l	Pseudomonas putida	DIN 38412 T.8
Other information:	ThOD		2,18	g/g		
Toxicity to annelids:	LC50	14d	1000	mg/kg	Eisenia foetida	OECD 207 (Earthworm, Acute Toxicity Tests)

2-(2-butoxyethoxy)eth		I	T				
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to daphnia:	NOEC/NOEL	48h	>=100	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)	
12.1. Toxicity to fish:	LC50	96h	1300	mg/l	Lepomis macrochirus	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:	NOEC/NOEL	96h	>100	mg/l	Desmodesmus subspicatus	OECD 201 (Alga, Growth Inhibition Test)	
12.2. Persistence and degradability:		28d	76	%		OECD 301 D (Ready Biodegradability - Closed Bottle Test)	
12.2. Persistence and degradability:		28d	100	%	activated sludge	OECD 302 B (Inherent Biodegradability - Zahn- Wellens/EMPA Test)	Readily biodegradable
12.3. Bioaccumulative potential:	Log Pow		0,9-1			OECD 117 (Partition Coefficient (n- octanol/water) - HPLC method)	Slight
12.5. Results of PBT and vPvB assessment							No PBT substance, No vPvB substance
Toxicity to bacteria:	EC10	30min	>1995	mg/l	activated sludge	OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation))	



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Other information:	Does not
	contain any
	organically
	bound
	halogens which
	can contribute
	to the AOX
	value in waste
	water.

Isotridecanol, ethoxyla Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.5. Results of PBT	Епаропп	Tillic	Value	Oilit	Organism	restilletilou	No PBT
and vPvB assessment							substance, No vPvB substance
12.1. Toxicity to fish:	LC50	96h	10-100	mg/l	Brachydanio rerio	OECD 203	VI VD Substant
12.1. TOXICITY TO HISTI.	LCSU	9011	10-100	1119/1	brachyuanio reno	(Fish, Acute	
	_					Toxicity Test)	
12.1. Toxicity to fish:	LC50	96h	1 - 10	mg/l	Cyprinus caprio	OECD 203	References
						(Fish, Acute	
						Toxicity Test)	
12.1. Toxicity to	EC50	48h	>1-10	mg/l	Daphnia magna	OECD 202	References
daphnia:						(Daphnia sp.	
						Acute	
						Immobilisation	
						Test)	
12.1. Toxicity to	EC10	21d	2,6	mg/l		OECD 211	
daphnia:	2010	2.0	2,0	1119/1		(Daphnia magna	
аартта.						Reproduction	
						Test)	
12.1. Toxicity to algae:	EC50	72h	>10-	mg/l	Scenedesmus	OECD 201	
12.1. Toxicity to algae.	EC30	1211		ilig/i			
			100		subspicatus	(Alga, Growth Inhibition Test)	
12.1. Toxicity to algae:	EC50	72h	>1-10	mg/l	Desmodesmus	OECD 201	References
					subspicatus	(Alga, Growth	
						Inhibition Test)	
12.2. Persistence and		28d	>70	%		OECD 301 A	References
degradability:						(Ready	
,						Biodegradability -	
						DOC Die-Away	
						Test)	
12.2. Persistence and		28d	>60	%		OECD 301 B	References
degradability:		20u	700	/0		(Ready	1/GIGIGIICG3
degradability.						Biodegradability -	
						Co2 Evolution	
40.4. Malatita da anti-	1/		5000			Test)	A -1
12.4. Mobility in soil:	Koc		>5000				Adsorption in ground.
12.4. Mobility in soil:	Kow		>5000				Adsorption in ground.
Toxicity to bacteria:	EC50		140	mg/l	activated sludge		<u> </u>
Toxicity to bacteria:	EC50		>10000	mg/l	Pseudomonas	ISO 10712	
•					putida		
Other organisms:	NOEC/NOEL		10	mg/kg		OECD 208	
						(Terrestrial	
						Plants, Growth	
						Test)	
Toxicity to annelids:	LC50	14d	>1000	mg/kg	Eisenia foetida	OECD 207	
-						(Earthworm,	
						Acute Toxicity	
						Tests)	



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3-butoxypropan-2-ol							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	>560- 1000	mg/l	Poecilia reticulata	OECD 203 (Fish, Acute Toxicity Test)	
12.1. Toxicity to daphnia:	EC50	48h	>1000	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)	
12.1. Toxicity to algae:	NOEC/NOEL	96h	560	mg/l	Pseudokirchnerie Ila subcapitata	OEĆD 201 (Alga, Growth Inhibition Test)	
12.1. Toxicity to algae:	EC50	72h	>1000	mg/l	Pseudokirchnerie Ila subcapitata	OECD 201 (Alga, Growth Inhibition Test)	
12.2. Persistence and degradability:	DOC	28d	90	%	activated sludge	OECD 301 E (Ready Biodegradability - Modified OECD Screening Test)	Readily biodegradable
12.3. Bioaccumulative potential:	Log Pow		1,15			,	
12.3. Bioaccumulative potential:	BCF		3,16				Slight
12.4. Mobility in soil:	Koc		1,3-6				
12.4. Mobility in soil:	H (Henry)		0,39111	Pa*m3/m ol			Expert judgement 25°0
12.5. Results of PBT and vPvB assessment							No PBT substance, No vPvB substance
Toxicity to bacteria:	EC50	3h	>1000	mg/l	activated sludge	OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation))	
Other information:	ThOD		0,242	g/g			
Water solubility:			6 - 52	g/l			

Sodium p-cumenesulp	Sodium p-cumenesulphonate										
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes				
12.1. Toxicity to fish:	LC50	96h	>100	mg/l	Cyprinus caprio	OECD 203					
					·	(Fish, Acute					
						Toxicity Test)					
12.1. Toxicity to	EC50	48h	>100	mg/l	Daphnia magna	OECD 202					
daphnia:						(Daphnia sp.					
						Acute					
						Immobilisation					
						Test)					
12.1. Toxicity to algae:	EC50	72h	>100	mg/l	Desmodesmus	OECD 201					
					subspicatus	(Alga, Growth					
						Inhibition Test)					
12.1. Toxicity to algae:	NOEC/NOEL	96h	31	mg/l	Pseudokirchnerie		EPA OTS				
					lla subcapitata		797.1050				



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				1			
12.2. Persistence and degradability:		28d	>60	%	activated sludge	OECD 301 B (Ready	Readily biodegradable
						Biodegradability -	
						Co2 Evolution	
						Test)	
12.3. Bioaccumulative	Log Pow		-1,1			OECD 107	Bioaccumulatio
potential:						(Partition	n is unlikely
						Coefficient (n-	(LogPow < 1).
						octanol/water) -	23 °C
						Shake Flask	
						Method)	
12.4. Mobility in soil:							Not to be
							expected
12.5. Results of PBT							No PBT
and vPvB assessment							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))	

Sodium isoalkyl sulfate							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.2. Persistence and	BOD5		0,342	g/g			
degradability:							
12.2. Persistence and	COD		0,578	g/g			
degradability:							
12.1. Toxicity to fish:	LC50	96h	>100	mg/l	Brachydanio rerio	OECD 203	
						(Fish, Acute	
						Toxicity Test)	
12.1. Toxicity to fish:	NOEC/NOEL	42d	>=1357	mg/l	Pimephales		
					promelas		
12.1. Toxicity to	NOEC/NOEL	21d	1,4	mg/l	Daphnia magna	OECD 211	
daphnia:						(Daphnia magna	
						Reproduction	
						Test)	
12.1. Toxicity to	EC50	48h	483	mg/l	Daphnia magna	Regulation (EC)	
daphnia:						440/2008 C.2	
						(DAPHNIA SP.	
						ACUTE	
						IMMOBILISATIO	
						N TEST)	
12.1. Toxicity to algae:	EC50	72h	>511		Desmodesmus	Regulation (EC)	
, ·					subspicatus	440/2008 C.3	
						(FRESHWATER	
						ALGAE AND	
						CYANOBACTER	
						IA, GROWTH	
						INHIBITION	
						TEST)	
12.2. Persistence and		28d	89,3	%	activated sludge	OECD 301 B	Readily
degradability:						(Ready	biodegradable
						Biodegradability -	
						Co2 Evolution	
						Test)	



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12.3. Bioaccumulative potential:	Log Pow		-0,248			OECD 123 (Partition Coefficient (1- Octanol / Water) - Slow-Stirring Method)	Low25 °C, pH = 8.97-8.98
Toxicity to bacteria:	EC50	3h	135	mg/l	activated sludge	OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation))	

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)

20 01 29 detergents containing hazardous substances

Recommendation:

Sewage disposal shall be discouraged.

Pay attention to local and national official regulations.

E.g. suitable incineration plant.

E.g. dispose at suitable refuse site.

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.

15 01 02 plastic packaging

SECTION 14: Transport information

General statements

14.1. UN number or ID number: Not applicable

Transport by road/by rail (ADR/RID)

14.2. UN proper shipping name:

14.3. Transport hazard class(es): n.a.

14.4. Packing group:Not applicableClassification code:Not applicableLQ:Not applicable

Transport category:

14.5. Environmental hazards: Not applicable

Tunnel restriction code:

Transport by sea (IMDG-code)

14.2. UN proper shipping name:

14.3. Transport hazard class(es): n.a.

14.4. Packing group: Not applicable

Marine Pollutant: n.

14.5. Environmental hazards: Not applicable

Transport by air (IATA)

14.2. UN proper shipping name:

14.3. Transport hazard class(es): n.a.



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14.4. Packing group:Not applicable14.5. 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

4 %

Observe restrictions:

Regulation (EC) No 1907/2006, Annex XVII

2-(2-butoxyethoxy)ethanol

Comply with trade association/occupational health regulations.

Directive 2010/75/EU (VOC):

REGULATION (EC) No 648/2004

less than 5 % anionic surfactants non-ionic surfactants

PHENOXYETHANOL

15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

SECTION 16: Other information

Revised sections:

1, 8, 11, 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	Evaluation method used		
(EC) No. 1272/2008 (CLP)			
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).

H302 Harmful if swallowed.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

Eye Dam. — Serious eye damage

Acute Tox. — Acute toxicity - oral

STOT SE — Specific target organ toxicity - single exposure - respiratory tract irritation

Eye Irrit. — Eye irritation

Skin Irrit. — Skin irritation

Key literature references and sources for data:

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

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

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



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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:

according, according to acc., acc. to

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

AOX Adsorbable organic halogen compounds

approx. approximately Art., Art. no. Article number

ASTM ASTM International (American Society for Testing and Materials)

ATE Acute Toxicity Estimate

BAM Bundesanstalt für Materialforschung und -prüfung (Federal Institute for Materials Research and Testing, Germany)

BAuA Bundesanstalt für Arbeitsschutz und Arbeitsmedizin (= Federal Institute for Occupational Health and Safety, Germany)

BCF Bioconcentration factor

BSEF The International Bromine Council

body weight bw

CAS Chemical Abstracts Service

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

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

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

ELINCS European List of Notified Chemical Substances

European Norms ΕN

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.

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

octanol-water partition coefficient Kow

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

including, inclusive incl.

IUCLIDInternational Uniform Chemical Information Database

IUPAC International Union for Pure Applied Chemistry

LC50 Lethal Concentration to 50 % of a test population



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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

Limited Quantities LQ

MARPOL International Convention for the Prevention of Marine Pollution from Ships

n.a. not applicable not available n.av. not checked n.c. n.d.a. no data available

NIOSHNational 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

organic org.

OSHA Occupational Safety and Health Administration (USA)

PBT persistent, bioaccumulative and toxic

PΕ Polyethylene

PNEC Predicted No Effect Concentration

mag parts per million Polyvinylchloride PVC

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

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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