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

1.1 Product identifier

Nano Pure Polish

Art.: 435999

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

Polish

Uses advised against:

No information available at present.

1.3 Details of the supplier of the safety data sheet

Koch-Chemie GmbH Einsteinstrasse 42 59423 Unna

Telefon: +49 (0) 2303 / 9 86 70 - 0 Fax: +49 (0) 2303 / 9 86 70 - 26

info@koch-chemie.com www.koch-chemie.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:

(RL)

National Poisons Information Centre, Beaumont Hospital, Dublin 9, Ireland, Tel.: +353 (0)1 809 2166 (Public Poisons Info Line, 8am-10pm, 7 days a week) +353 (0)1 809 2566 (Info for Healthcare Professionals ONLY, 24 h, 7 days a week)

Telephone number of the company in case of emergencies:

+1 872 5888271 (KCC)

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)

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Danger

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

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.

1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-C8-18(even-numbered)-acyl derivs., hydroxides, inner salts Reaction mass of: 2-ethylhexyl mono-D-glucopyranoside, 2-ethylhexyl di-D-glucopyranoside Amides, C12-18 (even-numbered), N-[3-(dimethylamino)propyl], N'-oxides D-glucopyranose, oligomeric, C10-16(even numbered) alkyl glycosides

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

<u></u>	
1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-	
C8-18(even-numbered)-acyl derivs., hydroxides, inner salts	
Registration number (REACH)	01-2119488533-30-XXXX
Index	
EINECS, ELINCS, NLP, REACH-IT List-No.	931-296-8
CAS	97862-59-4
content %	10-<25
Classification according to Regulation (EC) 1272/2008 (CLP), M-	Eye Dam. 1, H318
factors	Aquatic Chronic 3, H412
Specific Concentration Limits and ATE	Eye Dam. 1, H318: >=10 %
	Eye Irrit. 2, H319: >=4 %

Amides, C12-18 (even-numbered), N-[3-(dimethylamino)propyl], N'-	
oxides	
Registration number (REACH)	01-2119978229-22-XXXX
Index	
EINECS, ELINCS, NLP, REACH-IT List-No.	939-581-9
CAS	1471314-81-4
content %	5-<10

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Classification according to Regulation (EC) 1272/2008 (CLP), M-	Acute Tox. 4, H302
factors	Skin Irrit. 2, H315
	Eye Dam. 1, H318
	Aquatic Acute 1, H400 (M=1)
	Aquatic Chronic 3, H412
Specific Concentration Limits and ATE	ATE (oral): 500 mg/kg

D-glucopyranose, oligomeric, C10-16(even numbered) alkyl glycosides	
Registration number (REACH)	01-2119489418-23-XXXX
Index	
EINECS, ELINCS, NLP, REACH-IT List-No.	600-975-8
CAS	110615-47-9
content %	1-<5
Classification according to Regulation (EC) 1272/2008 (CLP), M-	Skin Irrit. 2, H315
factors	Eye Dam. 1, H318
Specific Concentration Limits and ATE	Skin Irrit. 2, H315: >=30 %
	Eye Dam. 1, H318: >12 %
	Eye Irrit. 2, H319: >12 %

Reaction mass of: 2-ethylhexyl mono-D-glucopyranoside, 2-ethylhexyl di-D-glucopyranoside	
Registration number (REACH)	01-0000016147-72-XXXX
Index	614-028-00-1
EINECS, ELINCS, NLP, REACH-IT List-No.	414-420-0
CAS	(108081-06-7)
content %	1-<5
Classification according to Regulation (EC) 1272/2008 (CLP), M-	Eye Dam. 1, H318
factors	

Acetic acid	Substance for which an EU exposure limit value applies.
Registration number (REACH)	01-2119475328-30-XXXX
Index	607-002-00-6
EINECS, ELINCS, NLP, REACH-IT List-No.	200-580-7
CAS	64-19-7
content %	1-<5
Classification according to Regulation (EC) 1272/2008 (CLP), M-	Flam. Liq. 3, H226
factors	Skin Corr. 1A, H314
	Eye Dam. 1, H318
Specific Concentration Limits and ATE	Skin Corr. 1A, H314: >=90 %
	Skin Corr. 1B, H314: >=25 %
	Skin Irrit. 2, H315: >=10 %
	Eye Irrit. 2, H319: >=10 %

1-Propanaminium, 2-hydroxy-N-(2-hydroxypropyl)-N,N-dimethyl-,	
diesters with vegetable-oil fatty acids, C18-unsatd., Me sulfates	
(salts)	
Registration number (REACH)	01-2119983493-26-XXXX
Index	
EINECS, ELINCS, NLP, REACH-IT List-No.	939-685-4
CAS	
content %	1-<5
Classification according to Regulation (EC) 1272/2008 (CLP), M-	Skin Irrit. 2, H315
factors	Eye Dam. 1, H318
	Aquatic Chronic 3, H412

2-Butoxyethanol	Substance for which an EU exposure limit value applies.
Registration number (REACH)	01-2119475108-36-XXXX

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Index	603-014-00-0
EINECS, ELINCS, NLP, REACH-IT List-No.	203-905-0
CAS	111-76-2
content %	1-<5
Classification according to Regulation (EC) 1272/2008 (CLP), M-	Acute Tox. 3, H331
factors	Acute Tox. 4, H302
	Skin Irrit. 2, H315
	Eye Irrit. 2, H319
Specific Concentration Limits and ATE	ATE (oral): 1200 mg/kg
	ATE (as inhalation, Aerosol): 0,5 mg/l/4h
	ATE (as inhalation, Vapours): 3 mg/l

Impurities, test data and additional information may have been taken into account in classifying and labelling the product.

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.

The addition of the highest concentrations listed here can result in a classification. Only when this classification is listed in Section 2 does it apply. In all other cases the total concentration is below the classification.

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.

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

Drying 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

Adapt to the nature and extent of fire. Water jet spray/foam/CO2/dry extinguisher

Unsuitable extinguishing media

None known

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5.2 Special hazards arising from the substance or mixture

In case of fire the following can develop:

Oxides of nitrogen Oxides of carbon 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

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.

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.

Store product closed and only in original packing.

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Not to be stored in gangways or stair wells.

Store at room temperature.

Protect from frost.

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

0.1 00111.0	or parameters				
Chemical		Acetic acid			
	10 ppm (25 mg/m3)	(WEL-TWA, EU)	EU)	n (50 mg/m3) (WEL-STEL,	
Monitoring pro	ocedures:	-	Draeger - Acetic Acid 5/		
		-	Compur - KITA-216 S (5		
		-		d in workplace atmospheres) -	
				acid) - 2003 - EU project BC/C	EN/ENTR/000/2002-16
BMGV:		-	card 64-5 (2004)	Oth an information.	
				Other information:	
Chemical		Acetic acid			
	0 ppm (25 mg/m3) (OELV-8h, EU)	EU)	om (50 mg/m3) (OELV-15min,	
Monitoring pro	ocedures:	-	Draeger - Acetic Acid 5/	a (67 22 101)	
		-	Compur - KITA-216 S (5		
		-		d in workplace atmospheres) -	
				acid) - 2003 - EU project BC/C	EN/ENTR/000/2002-16
BLV:		-	card 64-5 (2004)	Other information:	IOELV
				Other information.	IOELV
Chemical		Acetic acid			
	0 ppm (25 mg/m3) (OELV-8h, EU)		(50 mg/m3) (OELV-ST, EU)	
Monitoring pro	ocedures:	-	Draeger - Acetic Acid 5/		
		-	Compur - KITA-216 S (5		1004
		-		d in workplace atmospheres) - acid) - 2003 - EU project BC/C	
			card 64-5 (2004)	acia) - 2003 - EU project BC/C	EN/EN R/000/2002-16
BMGV:		<u>-</u>	card 04-5 (2004)	Other information:	
		0.0.4.41		Caron milandani	
B Chemical	Name	2-Butoxyethano		- (0.40 / 0) (MEL OTEL	
20 ppm (98 m			EU)	n (246 mg/m3) (WEL-STEL,	
Monitoring pro	ocedures:	-	Compur - KITA-190 U(C) (F) (O-bti-t
				pesungsmittelgemische 3), DF0 BC/CEN/ENTR/000/2002-16	
		-	NIOSH 1403 (ALCOHO		card 32-2 (2004)
		-		E ORGANIC COMPOUNDS (S	COPERNING) 1006
		_		inol (Butyl Cellosolve)) - 1990	CKEENING)) - 1990
BMGV: 240	mmol butoxyacetic	acid/mol creatinin	e in urine, post shift (BM		Sk (WEL)
Chemical	I Name	2-Butoxyethano			
	20 ppm (98 mg/m3) (om (246 mg/m3) (OELV-	
OLLV OII. 2					
Monitoring pro	ocedures:	-	Compur - KITA-190 U(C	(548 873)	
	ocedures:	-		c) (548 873) Desungsmittelgemische 3), DFC	G (E) (Solvent mixtures 3)
	ocedures:	-	DFG MethNr. 2 (D) (Lo	pesungsmittelgemische 3), DF0 BC/CEN/ENTR/000/2002-16	

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-	NIOSH 2549 (VC	LATILE	ORGANIC	COMP	POUNDS	(SCREENING)) - 1996
						_

- OSHA 83 (2-Butoxyethanol (Butyl Cellosolve)) - 1990

BLV: 200 mg/g creatinine (Butoxyacetic acid (BAA) in urine, h) (ACGIH-BEI) Other information: Sk, IOELV

DEV. 200 mg/g ordammo (Batoxyacono e		outer information. On, roll
	ryethanol	
OELV-8h: 20 ppm (98 mg/m3) (OELV-8h	n, EU) OELV-ST: 50 ppm (246 mg/	m3) (OELV-ST, EU)
Monitoring procedures:	 Compur - KITA-190 U(C) (548 87 	73)
	DFG MethNr. 2 (D) (Loesungsn	nittelgemische 3), DFG (E) (Solvent mixtures 3) -
	 2014, 2002 - EU project BC/CEN 	/ENTR/000/2002-16 card 32-2 (2004)
	- NIOSH 1403 (ALCOHOLS IV) - 2	2003
	- NIOSH 2549 (VOLATILE ORGAI	NIC COMPOUNDS (SCREENING)) - 1996
	 OSHA 83 (2-Butoxyethanol (Buty 	(l Cellosolve)) - 1990
BMGV: 240 mmol butoxyacetic acid/mol	creatinine in urine, post shift (BMGV)	Other information: Skin

1-Propanaminium, 3-am	nino-N-(carboxymethyl)-N,N-di	methyl-, N-C8-18(even-	numbered)-a	cyl derivs.	hydroxides	, inner salts
Area of application	Exposure route /	Effect on health	Descripto	Value	Unit	Note
	Environmental		r			
	compartment					
	Environment - freshwater		PNEC	0,0135	mg/l	
	Environment - marine		PNEC	0,00135	mg/l	
	Environment - sewage treatment plant		PNEC	3000	mg/l	
	Environment - soil		PNEC	0,8	mg/kg	
	Environment - sediment, freshwater		PNEC	1	mg/kg dw	
	Environment - sediment, marine		PNEC	0,1	mg/kg dw	
Consumer	Human - oral	Long term, systemic effects	DNEL	7,5	mg/kg	
Consumer	Consumer Human - dermal		DNEL	7,5	mg/kg	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	44	mg/m3	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	12,5	mg/kg	

Area of application	Exposure route /	Effect on health	Descripto	Value	Unit	Note
• •	Environmental		r			
	compartment					
	Environment - freshwater		PNEC	0,0303	mg/l	
	Environment - marine		PNEC	0,00303	mg/l	
	Environment - water, sporadic (intermittent) release		PNEC	0,0068	mg/l	
	Environment - sediment, freshwater		PNEC	0,214	mg/kg dw	
	Environment - sediment, marine		PNEC	0,0214	mg/kg dw	
	Environment - soil		PNEC	0,00002 5	mg/kg dw	
	Environment - oral (animal feed)		PNEC	0,5	mg/kg feed	
	Environment - sewage treatment plant		PNEC	9,7	mg/l	
Consumer	Human - oral	Long term, systemic effects	DNEL	0,05	mg/kg bw/d	

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Consumer	Human - dermal	Long term, systemic effects	DNEL	2,5	mg/kg bw/d	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	0,87	mg/m3	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	5	mg/kg bw/d	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	3,52	mg/m3	

Area of application	Exposure route / Environmental compartment	Effect on health	Descripto r	Value	Unit	Note
	Environment - freshwater		PNEC	0,176	mg/l	
	Environment - marine		PNEC	0,018	mg/l	
	Environment - water, sporadic (intermittent) release		PNEC	0,0295	mg/l	
	Environment - sewage treatment plant		PNEC	5000	mg/l	
	Environment - sediment, freshwater		PNEC	1,516	mg/kg dw	
	Environment - sediment, marine		PNEC	0,065	mg/kg dw	
	Environment - soil		PNEC	0,654	mg/kg dw	
	Environment - oral (animal feed)		PNEC	111,11	mg/kg feed	
Consumer	Human - oral	Long term, systemic effects	DNEL	35,7	mg/kg bw/day	
Consumer	Human - dermal	Long term, systemic effects	DNEL	357000	mg/kg bw/day	
Consumer	nsumer Human - inhalation		DNEL	124	mg/m3	
Workers / employees	Vorkers / employees Human - dermal		DNEL	595000	mg/kg bw/day	
/orkers / employees Human - inhalation		Long term, systemic effects	DNEL	420	mg/kg	

Area of application	Exposure route /	Effect on health	Descripto	Value	Unit	Note
	Environmental		r			
	compartment					
	Environment - freshwater		PNEC	0,098	mg/l	
	Environment - marine		PNEC	0,0098	mg/l	
	Environment - sediment, freshwater		PNEC	980	mg/kg dry weight	
	Environment - sediment, marine		PNEC	98	mg/kg dry weight	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	2,6	mg/m3	
Consumer	Human - dermal	Long term, systemic effects	DNEL	0,75	mg/kg	
Consumer	Human - oral	Long term, systemic effects	DNEL	0,75	mg/kg bw/day	
Workers / employees Human - dermal		Long term, systemic effects	DNEL	1,5	mg/kg	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	10,6	mg/m3	

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Area of application	Exposure route /	Effect on health	Descripto	Value	Unit	Note
••	Environmental Environmental		r			
	compartment					
	Environment - freshwater		PNEC	3,058	mg/l	
	Environment - marine		PNEC	0,3058	mg/l	
	Environment - periodic release		PNEC	30,58	mg/l	
	Environment - sediment, freshwater		PNEC	11,36	mg/kg dry weight	
	Environment - sediment, marine		PNEC	1,136	mg/kg dry weight	
	Environment - soil		PNEC	0,478	mg/kg dry weight	
	Environment - sewage treatment plant		PNEC	85	mg/kg dry weight	
Consumer	Human - inhalation	Short term, local effects	DNEL	25	mg/m3	
Consumer	onsumer Human - inhalation		DNEL	25	mg/kg	
Workers / employees Human - inhalation		Short term, local effects	DNEL	25	mg/m3	
Workers / employees Human - inhalation		Long term, local effects	DNEL	25	mg/m3	

Area of application	Exposure route /	Effect on health	Descripto	Value	Unit	Note
• •	Environmental		r			
	compartment					
	Environment - freshwater		PNEC	0,017	mg/l	
	Environment - sediment, freshwater		PNEC	1,7	mg/kg dw	
	Environment - marine		PNEC	0,002	mg/l	
	Environment - sediment, marine		PNEC	0,17	mg/kg dw	
	Environment - sewage treatment plant		PNEC	10	mg/l	
	Environment - soil		PNEC	0,331	mg/kg dw	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	2,17	mg/m3	
Consumer	Human - dermal	Long term, systemic effects	DNEL	56,25	mg/kg bw/d	
Consumer Human - oral		Long term, systemic effects	DNEL	1,25	mg/kg bw/d	
Workers / employees Human - inhalation		Long term, systemic effects	DNEL	8,72	mg/m3	
Workers / employees Human - dermal		Long term, systemic effects	DNEL	112,5	mg/kg bw/d	

2-Butoxyethanol						
Area of application	Exposure route /	Effect on health	Descripto	Value	Unit	Note
	Environmental		r			
	compartment					
	Environment - freshwater		PNEC	8,8	mg/l	
	Environment - marine		PNEC	0,88	mg/l	

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Environment - sediment, freshwater		PNEC	34,6	mg/kg dw
Environment - soil		PNEC	2,8	mg/kg dw
Environment - sewage treatment plant		PNEC	463	mg/l
Environment - sediment, marine		PNEC	3,46	mg/kg dw
Environment - sporadic (intermittent) release		PNEC	9,1	mg/l
Environment - soil		PNEC	2,33	mg/kg
Environment - oral (animal feed)		PNEC	20	mg/kg
Human - inhalation	Long term, local effects	DNEL	123	mg/m3
Human - dermal	Short term, systemic effects	DNEL	44,5	mg/kg bw/d
Human - inhalation	Short term, systemic effects	DNEL	426	mg/m3
Human - oral	Short term, systemic effects		13,4	mg/kg bw/d
Human - inhalation	Short term, local effects	DNEL	147	mg/m3
Human - dermal	Long term, systemic effects	DNEL	38	mg/kg bw/d
Human - inhalation	Long term, systemic effects	DNEL	49	mg/m3
Human - oral	Long term, systemic effects	DNEL	3,2	mg/kg bw/d
Human - dermal	Short term, systemic effects	DNEL	89	mg/kg bw/d
Human - inhalation	Short term, systemic effects	DNEL	663	mg/m3
Human - inhalation	Short term, local effects	DNEL	246	mg/m3
Human - dermal	Long term, systemic effects	DNEL	75	mg/kg bw/d
Human - inhalation	Long term, systemic effects	DNEL	98	mg/m3
	freshwater Environment - soil Environment - sewage treatment plant Environment - sediment, marine Environment - sporadic (intermittent) release Environment - soil Environment - oral (animal feed) Human - inhalation Human - dermal Human - oral Human - inhalation Human - dermal Human - dermal Human - dermal Human - inhalation Human - inhalation Human - inhalation Human - inhalation Human - oral Human - inhalation Human - oral Human - oral Human - dermal Human - dermal Human - dermal	freshwater Environment - soil Environment - sewage treatment plant Environment - sediment, marine Environment - sporadic (intermittent) release Environment - oral (animal feed) Human - inhalation Human - inhalation Human - oral Human - oral Human - oral Human - inhalation Human - oral Human - oral Human - oral Human - oral Human - inhalation Human - oral Human - oral	freshwater Environment - soil Environment - sewage treatment plant Environment - sediment, marine Environment - sporadic (intermittent) release Environment - oral (animal feed) Human - inhalation Human - oral Human - oral Environment - oral Environment - oral (animal feed) Human - inhalation Long term, local effects Human - inhalation Short term, systemic effects Human - oral Environment - oral Environment - oral (animal feed) Human - inhalation DNEL Effects Human - inhalation Short term, systemic effects Human - inhalation DNEL Effects Human - inhalation Long term, systemic effects Human - inhalation Long term, systemic effects Human - oral Short term, systemic effects Human - inhalation Short term, systemic DNEL Effects Human - inhalation Long term, systemic DNEL Effects Human - inhalation Long term, systemic Effects DNEL Effects Human - inhalation Long term, systemic Effects DNEL Effects Long term, systemic DNEL Effects Long term, systemic DNEL Effects DNEL Effects Long term, systemic DNEL Effects DNEL Effe	freshwater Environment - soil Environment - sewage treatment plant Environment - sediment, marine Environment - sporadic (intermittent) release Environment - oral (animal feed) Human - inhalation Human - oral Human - dermal Human - dermal Environment Environment - soil Environment - soil Environment - oral (animal feed) Human - inhalation Long term, local effects Human - inhalation Short term, systemic effects Human - oral Short term, systemic effects Human - inhalation Short term, local effects Human - dermal Long term, local effects Human - dermal Long term, systemic effects Human - inhalation Short term, systemic effects Human - oral Long term, systemic effects Human - inhalation Short term, systemic effects DNEL 98

- United Kingdom | WEL-TWA = Workplace Exposure Limit Long-term exposure limit 8-hour TWA (= time weighted average) reference period (EH40/2005 Workplace exposure limits (Fourth Edition 2020)).
- (EU) = Directive 91/322/EEC, 98/24/EC, 2000/39/EC, 2004/37/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU or 2019/1831/EU: (8) = Inhalable fraction (2004/37/CE, 2017/164/EU). (9) = Respirable fraction (2004/37/CE, 2017/164/EU). (11) = Inhalable fraction (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 (2004/37/CE). | WEL-STEL = Workplace Exposure Limit Short-term exposure limit 15-minute reference period (EH40/2005 Workplace exposure limits (Fourth Edition 2020)).
- (EU) = Directive 91/322/EEC, 98/24/EC, 2000/39/EC, 2004/37/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU or 2019/1831/EU:
- (8) = Inhalable fraction (2004/37/EC, 2017/164/EU). (9) = Respirable fraction (2004/37/EC, 2017/164/EU). (10) = Short-term exposure limit value in relation to a reference period of 1 minute (2017/164/EU).
- | BMGV = Biological monitoring guidance value (EH40/2005 Workplace exposure limits (Fourth Edition 2020)).
- (EU) = Directive 98/24/EC or 2004/37/EC or SCOEL (Biological Limit Value BLV, Recommendation from the Scientific Committee on Occupational Exposure Limits (SCOEL)) |
- | Other information (EH40/2005 Workplace exposure limits (Fourth Edition 2020)): Sen = Capable of causing occupational asthma. Sk = Can be absorbed through skin. Carc = Capable of causing cancer and/or heritable genetic damage.
- (EU) = Directive 91/322/EEC, 98/24/EC, 2000/39/EC, 2004/37/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU, 2019/1831/EU or 2024/869/EU:
- (13) = The substance can cause sensitisation of the skin and of the respiratory tract (98/24/EC, 2004/37/CE), (14) = The substance can cause sensitisation of the skin (2004/37/CE), (15) = Substantial contribution to the total body burden via dermal exposure possible.

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- Ireland/Éire | OELV-8h = Occupational Exposure Limit Value 8-hour reference period (Chemical Agents and Carcinogens CoP (Code of Practice) 2021, HSA (Health and Safety Authority)): (IFV) = Inhalable Fraction and Vapour. (I) = Inhalable Fraction. (R) = Respirable Fraction.
- (EU) = Directive 91/322/EEC, 98/24/EC, 2000/39/EC, 2004/37/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU or 2019/1831/EU: (8) = Inhalable fraction (2004/37/EC, 2017/164/EU). (9) = Respirable fraction (2004/37/EC, 2017/164/EU). (11) = Inhalable fraction (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 (2004/37/CE). | OELV-15min = Occupational Exposure Limit Value 15-minute reference period (Chemical Agents and Carcinogens CoP (Code of Practice) 2021, HSA (Health and Safety Authority)): (IFV) = Inhalable Fraction and Vapour. (I) = Inhalable Fraction. (R) = Respirable Fraction.
- (EU) = Directive 91/322/EEC, 98/24/EC, 2000/39/EC, 2004/37/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU or 2019/1831/EU: (8) = Inhalable fraction (2004/37/EC, 2017/164/EU). (9) = Respirable fraction (2004/37/EC, 2017/164/EU). (10) = Short-term exposure limit value in relation to a reference period of 1 minute (2017/164/EU).
- | BMGV = Biological Monitoring Guidance Value (Biological Monitoring Guidelines 2011, HSA (Health and Safety Authority)):
 ACGIH-BEI = BMGV have been sourced from Biological Exposure Indices (BEI) as issued by the American Conference of
 Governmental Industrial Hygienists (ACGIH). SCOEL = BMGV have been sourced from the Scientific Committee on Occupational
 Exposure Limit Values (SCOEL) which was set up by a Commission Decision (95/320/EC) with the mandate to advise the European
 Commission on occupational exposure limits for chemicals in the workplace. HSE = BMGV have been sourced from the Health and
 Safety Executive (HSE), UK.
- (EU) = Directive 98/24/EC or 2004/37/EC or SCOEL (Biological Limit Value BLV, Recommendation from the Scientific Committee on Occupational Exposure Limits (SCOEL)) |
- | Other information (Chemical Agents and Carcinogens CoP (Code of Practice) 2021, HSA (Health and Safety Authority)): Carc1A, Carc1B = carcinogenic substance, Cat. 1A or 1B. Muta1A, Muta1B = mutagenic substance, Cat. 1A or 1B. Repr1A, Repr1B = Substances known to be toxic for reproduction, Cat. 1A or 1B. Sk = can be absorbed through skin. Asphx = asphyxiant. Sen = Respiratory sensitizer. BOELV = Binding Occupational Exposure Limit Values. IOELV = Indicative Occupational Exposure Limit Values.
- (EU) = Directive 91/322/EEC, 98/24/EC, 2000/39/EC, 2004/37/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU, 2019/1831/EU or 2024/869/EU:
- (13) = The substance can cause sensitisation of the skin and of the respiratory tract (98/24/EC, 2004/37/CE), (14) = The substance can cause sensitisation of the skin (2004/37/CE), (15) = Substantial contribution to the total body burden via dermal exposure possible.
- Malta | OELV-8h = Occupational Exposure Limit Value 8 h (8-hour reference period as a time-weighted average) [S.L.424.24, last amended by L.N. 356 of 2021]: [9] = Inhalable fraction, [10] = Respirable fraction.
 - (EU) = Directive 91/322/EEC, 98/24/EC, 2000/39/EC, 2004/37/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU or 2019/1831/EU: (8) = Inhalable fraction (2004/37/EC, 2017/164/EU). (9) = Respirable fraction (2004/37/EC, 2017/164/EU). (11) = Inhalable fraction (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 (2004/37/CE). | OELV-ST = Occupational Exposure Limit Value Short-term (15-minute reference period) [S.L.424.24, last amended by L.N. 356 of 2021]: [8] = Short-term exposure limit value in relation to a reference period of 1 minute, [9] = Inhalable fraction, [10] = Respirable
 - (EU) = Directive 91/322/EEC, 98/24/EC, 2000/39/EC, 2004/37/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU or 2019/1831/EU: (8) = Inhalable fraction (2004/37/EC, 2017/164/EU). (9) = Respirable fraction (2004/37/EC, 2017/164/EU). (10) = Short-term exposure limit value in relation to a reference period of 1 minute (2017/164/EU).
 - | BMGV = Biological monitoring guidance value (EH40/2005 Workplace exposure limits (Fourth Edition 2020), United Kingdom). (EU) = Directive 98/24/EC or 2004/37/EC or SCOEL (Biological Limit Value BLV, Recommendation from the Scientific Committee on Occupational Exposure Limits (SCOEL)) |
 - Other information [S.L.424.24, last amended by L.N. 356 of 2021]: Skin = Possibility of a significant uptake through the skin. [11] = When selecting an appropriate exposure monitoring method, account should be taken of potential limitations and interferences that may arise in the presence of other sulphur compounds. [12] = The mist is defined as the thoracic fraction. [13] = Established in accordance with the Annex to Directive 91/322/EEC. [14] = During exposure monitoring for mercury and its divalent inorganic compounds, account should be taken of relevant biological monitoring techniques that complement the OELV.
- (EU) = Directive 91/322/EEC, 98/24/EC, 2000/39/EC, 2004/37/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU, 2019/1831/EU or 2024/869/EU:
- (EU13) = The substance can cause sensitisation of the skin and of the respiratory tract (2004/37/CE), (EU14) = The substance can cause sensitisation of the skin (2004/37/CE), (EU15) = Substantial contribution to the total body burden via dermal exposure possible.

8.2 Exposure controls

8.2.1 Appropriate engineering controls

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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 made of butyl (EN ISO 374).

Protective nitrile gloves (EN ISO 374).

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

Protective PVC gloves (EN ISO 374).

Minimum layer thickness in mm:

0,5

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.

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: Yellow

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Odour:

Melting point/freezing point:

Boiling point or initial boiling point and boiling range:

Flammability:

Lower explosion limit: Upper explosion limit:

Flash point:

Auto-ignition temperature: Decomposition temperature:

pH:

Kinematic viscosity:

Solubility:

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

Vapour pressure:

Density and/or relative density:

Relative vapour density:

Particle characteristics:

9.2 Other information

No information available at present.

There is no information available on this parameter.

Does not apply to mixtures.

There is no information available on this parameter.

1,04 g/ml

There is no information available on this parameter.

Does not apply to liquids.

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

None known

10.5 Incompatible materials

None known

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:	ATE	>20	mg/l/4h			calculated
						value, Vapours
Acute toxicity, by inhalation:	ATE	>5	mg/l/4h			calculated
						value, Dusts or
						mist
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.

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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-			
RÉ):			
Aspiration hazard:			n.d.a.
Symptoms:			n.d.a.

Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	2335	mg/kg	Rat	OECD 401 (Acute	
					Oral Toxicity)	
Acute toxicity, by dermal	LD50	>2000	mg/kg	Rat	OECD 402 (Acute	
route:					Dermal Toxicity)	
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute	Mild irritant
					Dermal	
					Irritation/Corrosion)	
Serious eye				Rabbit	OECD 405 (Acute	Risk of serious
damage/irritation:					Eye	damage to
					Irritation/Corrosion)	eyes.
Respiratory or skin				Guinea pig	OECD 406 (Skin	Not sensitizising
sensitisation:					Sensitisation)	
Germ cell mutagenicity:				Salmonella	(Ames-Test)	Negative
				typhimurium		
Germ cell mutagenicity:					OECD 476 (In Vitro	Negative
					Mammalian Cell Gene	
					Mutation Test)	
Germ cell mutagenicity:				Mouse	OECD 474	Negative
					(Mammalian	
					Erythrocyte	
					Micronucleus Test)	
Carcinogenicity:						Negative
Reproductive toxicity:	NOEL	100	mg/kg	Rat	OECD 414 (Prenatal	
					Developmental	
					Toxicity Study)	
Specific target organ toxicity -	NOEL	247	mg/kg	Rat	OECD 408 (Repeated	
repeated exposure (STOT-					Dose 90-Day Oral	
RE), oral:					Toxicity Study in	
					Rodents)	

Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	500-1000	mg/kg	Rat	OECD 423 (Acute	
					Oral Toxicity - Acute	
					Toxic Class Method)	
Acute toxicity, by oral route:	ATE	500	mg/kg			
Acute toxicity, by dermal	LD50	>2000	mg/kg	Rat	OECD 402 (Acute	
route:					Dermal Toxicity)	
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute	Irritant
					Dermal	
					Irritation/Corrosion)	
Serious eye				Rabbit	OECD 405 (Acute	Risk of serious
damage/irritation:					Eye	damage to
					Irritation/Corrosion)	eyes.
Respiratory or skin				Guinea pig	OECD 406 (Skin	No (skin
sensitisation:					Sensitisation)	contact)
Germ cell mutagenicity:					OECD 471 (Bacterial	Negative
					Reverse Mutation	
					Test)	

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Reproductive toxicity (Effects on fertility):	NOEL	100	mg/kg bw/d	Rat	OECD 421 (Reproduction/Develop mental Toxicity Screening Test)	
Specific target organ toxicity - repeated exposure (STOT-RE), oral:	NOAEL	50	mg/kg bw/d	Rat	OECD 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)	
Aspiration hazard:						No

D-glucopyranose, oligomeric	c, C10-16(eve		l) alkyl glycos	ides		
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)	
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute Dermal Irritation/Corrosion)	Skin Irrit. 2
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye Irritation/Corrosion)	Eye Dam. 1
Respiratory or skin sensitisation:				Guinea pig	OECD 406 (Skin Sensitisation)	No (skin contact), Analogous conclusion
Germ cell mutagenicity:				Salmonella typhimurium	OECD 471 (Bacterial Reverse Mutation Test)	Negative
Germ cell mutagenicity:				Mouse	OECD 476 (In Vitro Mammalian Cell Gene Mutation Test)	Negative
Germ cell mutagenicity:				Mammalian	OECD 473 (In Vitro Mammalian Chromosome Aberration Test)	Negative Chinese hamster
Reproductive toxicity:				Rat	OECD 414 (Prenatal Developmental Toxicity Study)	Negative
Reproductive toxicity (Developmental toxicity):	NOAEL	1000	mg/kg bw/d	Rat	OECD 414 (Prenatal Developmental Toxicity Study)	Negative
Specific target organ toxicity - repeated exposure (STOT-RE), oral:	NOAEL	1000	mg/kg bw/d	Rat	Regulation (EC) 440/2008 B.26 (SUB-CHRONIC ORAL TOXICITY TEST REPEATED DOSE 90 - DAY (RODENTS))	
Symptoms:						eyes, reddened, watering eyes, blisters by skin- contact, reddening of the skin, stomach pain

Reaction mass of: 2-ethylhexyl mono-D-glucopyranoside, 2-ethylhexyl di-D-glucopyranoside									
Toxicity / effect Endpoint Value Unit Organism Test method Notes									

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Acute toxicity, by oral route:	LD50	>2000-5000	mg/kg	Rat	Regulation (EC) 440/2008 B.1 (ACUTE ORAL TOXICITY)	
Acute toxicity, by dermal route:	LD50	>5000	mg/kg	Rat	Regulation (EC) 440/2008 B.3 (ACUTE TOXICITY (DERMAL)	
Serious eye damage/irritation:				Rabbit	Regulation (EC) 440/2008 B.5 (ACUTE EYE IRRITATION/CORRO SION)	Risk of serious damage to eyes.
Respiratory or skin sensitisation:					OECD 406 (Skin Sensitisation)	Not sensitizising
Germ cell mutagenicity:						Negative

Acetic acid						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	3310	mg/kg	Rat		
Acute toxicity, by inhalation:	LC50	11,4	mg/l/4h	Rat		Vapours, Does not conform with EU classification.
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute Dermal Irritation/Corrosion)	Corrosive
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye Irritation/Corrosion)	Corrosive, Eye Dam. 1
Respiratory or skin sensitisation:						Not sensitizising
Germ cell mutagenicity:				Salmonella typhimurium	OECD 471 (Bacterial Reverse Mutation Test)	Negative
Carcinogenicity:					,	Negative
Symptoms:						acidosis, respiratory distress, burning of the membranes of the nose and throat, diarrhoea, disturbed heart rhythm, cornea opacity, cramps, circulatory collapse, stomach cramps, shock, nausea and vomiting.

1-Propanaminium, 2-hydroxy-N-(2-hydroxypropyl)-N,N-dimethyl-, diesters with vegetable-oil fatty acids, C18-unsatd., Me sulfates (salts)									
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes			
Acute toxicity, by oral route:	LD50	>2000	mg/kg	Mouse	OECD 423 (Acute Oral Toxicity - Acute Toxic Class Method)				
Acute toxicity, by dermal route:	LD50	>2000	mg/kg	Rabbit	OECD 402 (Acute Dermal Toxicity)				

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Skin corrosion/irritation:				Rabbit	OECD 404 (Acute Dermal	Skin Irrit. 2
					Irritation/Corrosion)	
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye Irritation/Corrosion)	Eye Dam. 1
Respiratory or skin sensitisation:				Guinea pig		Not sensitizising
Germ cell mutagenicity:					OECD 471 (Bacterial Reverse Mutation Test)	Negative
Germ cell mutagenicity:					OECD 473 (In Vitro Mammalian Chromosome Aberration Test)	Negative, Analogous conclusion
Germ cell mutagenicity:				Mouse	OECD 476 (In Vitro Mammalian Cell Gene Mutation Test)	Negative, Analogous conclusion
Reproductive toxicity:	NOAEL	1000	mg/kg bw/d	Rat	OECD 414 (Prenatal Developmental Toxicity Study)	Analogous conclusion
Specific target organ toxicity - repeated exposure (STOT- RE), oral:	NOAEL	500	mg/kg	Rat	OECD 407 (Repeated Dose 28-Day Oral Toxicity Study in Rodents)	
Symptoms:						gastrointestinal disturbances

Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	ATE	1200	mg/kg			
Acute toxicity, by dermal route:	LD50	2275	mg/kg	Rabbit	OECD 402 (Acute Dermal Toxicity)	
Acute toxicity, by inhalation:	ATE	3	mg/l			Vapours
Acute toxicity, by inhalation:	ATE	0,5	mg/l/4h			Aerosol
Skin corrosion/irritation:		·		Rabbit	Regulation (EC) 440/2008 B.4 (DERMAL IRRITATION/CORRO SION)	Skin Irrit. 2, Product removes fat.
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
Germ cell mutagenicity:					OECD 473 (In Vitro Mammalian Chromosome Aberration Test)	Negative
Germ cell mutagenicity:					OECD 476 (In Vitro Mammalian Cell Gene Mutation Test)	Negative

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Carcinogenicity:				Rat	OECD 451 (Carcinogenicity	Negative
					Studies)	
Carcinogenicity:	NOAEC	125	ppm	Mouse	OECD 451	Negative
					(Carcinogenicity	
					Studies)	
Reproductive toxicity:	NOAEL	720	mg/kg bw/d			
Specific target organ toxicity -	NOAEL	<69	mg/kg	Rat	OECD 408 (Repeated	
repeated exposure (STOT-			bw/d		Dose 90-Day Oral	
RE), oral:					Toxicity Study in	
0 10	NOAE	150		5	Rodents)	
Specific target organ toxicity -	NOAEL	>150	mg/kg	Rabbit	OECD 411	
repeated exposure (STOT-			bw/d		(Subchronic Dermal	
RE), dermal:					Toxicity - 90-day Study)	
Aspiration hazard:					Study)	No
Symptoms:						acidosis,
Cymptoms.						ataxia,
						breathing
						difficulties,
						respiratory
						distress,
						drowsiness,
						unconsciousnes
						s, annoyance,
						coughing,
						headaches,
						gastrointestinal
						disturbances,
						insomnia, mucous
						membrane
						irritation,
						dizziness,
						nausea

11.2. Information on other hazards

Nano Pure Polish						
Art.: 435999						
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).

Nano Pure Polish							
Art.: 435999							
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:							

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12.1. Toxicity to algae:				n.d.a.
12.2. Persistence and				n.d.a.
degradability:				
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-
				elimination
				degree(complex
				ing organic
				substance)>=
				80%/28d: n.a.
Other information:	AOX	%		According to
				the recipe,
				contains no
				AOX.

Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	1,11	mg/l	Pimephales promelas	OECD 203 (Fish, Acute Toxicity Test)	
12.1. Toxicity to fish:	NOEC/NOEL	>60d	0,135	mg/l	Oncorhynchus mykiss	OECD 210 (Fish, Early-Life Stage Toxicity Test)	
12.1. Toxicity to daphnia:	EC50	48h	1,9	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)	
12.1. Toxicity to daphnia:	NOEC/NOEL	21d	0,32	mg/l	Daphnia magna	OECD 211 (Daphnia magna Reproduction Test)	
12.1. Toxicity to daphnia:	LOEC/LOEL	21d	0,56	mg/l	Daphnia magna	OECD 211 (Daphnia magna Reproduction Test)	
12.1. Toxicity to algae:	EC50	72h	~1,5	mg/l	Desmodesmus subspicatus	DIN 38412 T.9	
12.2. Persistence and degradability:		28d	91,6	%		OECD 301 B (Ready Biodegradability - Co2 Evolution Test)	
12.3. Bioaccumulative potential:	Log Kow		4,21				calculated
12.3. Bioaccumulative potential:	BCF		<71				

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12.5. Results of PBT				No PBT
and vPvB assessment				substance, No
				vPvB substance

Amides, C12-18 (even-							T
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	0,68	mg/l	Oncorhynchus mykiss	OECD 203 (Fish, Acute Toxicity Test)	
12.1. Toxicity to fish:	NOEC/NOEL	15d	0,495	mg/l	Pimephales promelas	U.S. EPA ECOTOX Database	
12.1. Toxicity to daphnia:	NOEC/NOEL	21d	0,7	mg/l	Daphnia magna	OECD 211 (Daphnia magna Reproduction Test)	
12.1. Toxicity to daphnia:	EC50	48h	19,9	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)	
12.1. Toxicity to algae:	NOEC/NOEL	72h	0,303	mg/l	Pseudokirchnerie Ila subcapitata	OECD 201 (Alga, Growth Inhibition Test)	
12.1. Toxicity to algae:	EC20	72h	0,705	mg/l	Pseudokirchnerie Ila subcapitata	OECD 201 (Alga, Growth Inhibition Test)	
12.2. Persistence and degradability:		28d	68	%		OECD 301 B (Ready Biodegradability - Co2 Evolution Test)	Biodegradable
12.3. Bioaccumulative potential:	BCF		3-71	%		,	
12.5. Results of PBT and vPvB assessment							No PBT substance, No vPvB substance
Toxicity to bacteria:	EC50	3h	970	mg/l	activated sludge	OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation))	
Other information:	Koc		34,41			//	20°C
Other information:	H (Henry)		17,2				25°C

D-glucopyranose, oligomeric, C10-16(even numbered) alkyl glycosides												
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes					
12.1. Toxicity to fish:	NOEC/NOEL	28d	1,8	mg/l	Brachydanio rerio	OECD 204						
·					·	(Fish, Prolonged						
						Toxicity Test -						
						14-Day Study)						
12.1. Toxicity to fish:	LC50	96h	2,95-5,9	mg/l	Brachydanio rerio	OECD 203						
·					·	(Fish, Acute						
						Toxicity Test)						

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12.1. Toxicity to	LC50	48h	7-14	mg/l	Daphnia magna	OECD 202	
daphnia:						(Daphnia sp.	
						Acute	
						Immobilisation	
						Test)	
12.1. Toxicity to	NOEC/NOEL	21d	1-4	mg/l	Daphnia magna	OECD 202	
daphnia:						(Daphnia sp.	
						Acute	
						Immobilisation	
12.1. Toxicity to algae:	EC50	72h	5-38	ma/l	Desmodesmus	Test) OECD 201	
12.1. Toxicity to algae.	EC30	/ 211	3-30	mg/l	subspicatus	(Alga, Growth	
					Subspicatus	Inhibition Test)	
12.2. Persistence and		28d	88	%		OECD 301 D	Readily
degradability:				'		(Ready	biodegradable
						Biodegradability -	
						Closed Bottle	
						Test)	
12.3. Bioaccumulative potential:	Log Kow		<=-0,07				Lowat 20 °C
12.5. Results of PBT							No PBT
and vPvB assessment							substance, No
							vPvB substance
12.6. Endocrine							No
disrupting properties:							

Reaction mass of: 2-et	thylhexyl mon	o-D-gluco _l	pyranoside	, 2-ethylhe	exyl di-D-glucopyran	oside	
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	>310	mg/l	Oncorhynchus mykiss		
12.1. Toxicity to daphnia:	EC50	48h	>100	mg/l	Daphnia magna		
12.1. Toxicity to algae:	EC50	72h	>100	mg/l	Selenastrum capricornutum		
12.2. Persistence and degradability:	BOD	28d	>60	%		OECD 301 D (Ready Biodegradability - Closed Bottle Test)	

Acetic acid							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	75	mg/l	Lepomis macrochirus		
12.1. Toxicity to fish:	LC50	96h	88	mg/l	Pimephales promelas		
12.1. Toxicity to daphnia:	EC50	48h	>300,82	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)	
12.1. Toxicity to daphnia:	EC50	24h	47	mg/l	Daphnia magna	,	
12.1. Toxicity to algae:	EC50	72h	>300,82	mg/l	Skeletonema costatum		
12.2. Persistence and degradability:		30d	>99	%			
12.2. Persistence and degradability:		20d	98	%			Readily biodegradable
12.3. Bioaccumulative potential:	Log Pow		-0,17				

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12.3. Bioaccumulative	BCF		<1			Not to be
potential:						expected
12.5. Results of PBT						No PBT
and vPvB assessment						substance, No
						vPvB substance
Toxicity to bacteria:	EC50	15min	11	mg/l	Photobacterium	
					phosphoreum	
Toxicity to bacteria:	EC5	16h	2850	mg/l	Pseudomonas	
					putida	
Other information:	BOD5		0,88	g/g		

Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	NOEC/NOEL	35d	0,686	mg/l	Pimephales	U.S. EPA	Analogous
					promelas	ECOTOX	conclusion
						Database	
12.1. Toxicity to fish:	LC50	96h	>10	mg/l	Cyprinus caprio	OECD 203	Analogous
						(Fish, Acute	conclusion
						Toxicity Test)	
12.1. Toxicity to	NOEC/NOEL	21d	1	mg/l	Daphnia magna	U.S. EPA	Analogous
daphnia:						ECOTOX	conclusion
						Database	
12.1. Toxicity to	EC50	48h	>8,6	mg/l	Daphnia magna	OECD 202	Analogous
daphnia:						(Daphnia sp.	conclusion
						Acute	
						Immobilisation	
						Test)	
12.1. Toxicity to algae:	NOEC/NOEL	72h	0,39	mg/l	Pseudokirchnerie	OECD 201	Analogous
					lla subcapitata	(Alga, Growth	conclusion
						Inhibition Test)	
12.1. Toxicity to algae:	EC50	72h	1,2	mg/l	Pseudokirchnerie	OECD 201	Analogous
					lla subcapitata	(Alga, Growth	conclusion
						Inhibition Test)	
12.2. Persistence and		28d	>60	%		OECD 301 F	Readily
degradability:						(Ready	biodegradable
						Biodegradability -	
						Manometric	
						Respirometry	
						Test)	
Toxicity to bacteria:	EC50	6d	100	mg/l	activated sludge		Analogous
							conclusion

Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	1474	mg/l	Oncorhynchus mykiss	OECD 203 (Fish, Acute Toxicity Test)	
12.1. Toxicity to fish:	NOEC/NOEL	21d	>100	mg/l	Brachydanio rerio	OECD 204 (Fish, Prolonged Toxicity Test - 14-Day Study)	
12.1. Toxicity to daphnia:	EC50	48h	1550	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)	
12.1. Toxicity to daphnia:	NOEC/NOEL	21d	100	mg/l	Daphnia magna	OECD 211 (Daphnia magna Reproduction Test)	

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12.1. Toxicity to algae:	EC50	72h	1840	mg/l	Pseudokirchnerie	OECD 201	
				3	lla subcapitata	(Alga, Growth	
						Inhibition Test)	
12.1. Toxicity to algae:	NOEC/NOEL	72h	286	mg/l	Pseudokirchnerie	OECD 201	
					lla subcapitata	(Alga, Growth	
40.0 D : (00.1	0.5	0/		Inhibition Test)	D 111
12.2. Persistence and		28d	95	%		OECD 301 E (Ready	Readily biodegradable
degradability:						Biodegradability -	biodegradable
						Modified OECD	
						Screening Test)	
12.2. Persistence and		28d	>99	%		OECD 302 B	Readily
degradability:						(Inherent	biodegradable
						Biodegradability -	
						Zahn-	
						Wellens/EMPA	
10.0 D: 1.1	DOE		0.0			Test)	Ol: 14
12.3. Bioaccumulative potential:	BCF		3,2				Slight
12.3. Bioaccumulative	Log Pow		0,81			OECD 107	Not to be
potential:	Logiow		0,01			(Partition	expected
potornian						Coefficient (n-	опростои
						octanol/water) -	
						Shake Flask	
						Method)	
12.4. Mobility in soil:	H (Henry)		0,00000	atm*m3/			
40 F. Danilla at DDT			16	mol			N- DDT
12.5. Results of PBT and vPvB assessment							No PBT
and vevd assessment							substance, No vPvB
							substance
Toxicity to bacteria:	EC10	16h	>700	mg/l	Pseudomonas	DIN 38412 T.8	Jasotarioo
.,		-			putida		

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.

Recommended cleaner:

Water

SECTION 14: Transport information

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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 applicable14.4. Packing group:Not applicable14.5. Environmental hazards:Not applicableTunnel restriction code:Not applicableClassification code:Not applicableLQ:Not applicableTransport 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 applicable14.4. Packing group:Not applicable14.5. Environmental hazards:Not applicableMarine Pollutant:Not applicableEmS: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 applicable14.4. 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

Observe restrictions:

Comply with national regulations/laws governing maternity protection (national implementation of the Directive 92/85/EEC)! Comply with trade association/occupational health regulations.

Directive 2010/75/EU (VOC): 4,2 %

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

15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

SECTION 16: Other information

Revised sections:

8

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):

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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.

H314 Causes severe skin burns and eye damage.

H226 Flammable liquid and vapour.

H302 Harmful if swallowed.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H331 Toxic if inhaled.

H400 Very toxic to aquatic life.

H412 Harmful to aquatic life with long lasting effects.

Skin Irrit. — Skin irritation

Eye Dam. — Serious eye damage

Aquatic Chronic — Hazardous to the aquatic environment - chronic

Acute Tox. — Acute toxicity - oral

Aquatic Acute — Hazardous to the aquatic environment - acute

Flam. Liq. — Flammable liquid Skin Corr. — Skin corrosion

Acute Tox. — Acute toxicity - inhalation

Eye Irrit. — Eye irritation

Key literature references and sources for data:

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

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

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

Safety data sheets for the constituent substances.

ECHA Homepage - Information about chemicals.

GESTIS Substance Database (Germany).

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

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

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

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

Any abbreviations and acronyms used in this document:

acc., acc. to according, according to

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

AOX Adsorbable organic halogen compounds

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

ASTM ASTM International (American Society for Testing and Materials)

ATE Acute Toxicity Estimate

BAM Bundesanstalt für Materialforschung und -prüfung (= Federal Institute for Materials Research and Testing, Germany)
BAuA Bundesanstalt für Arbeitsschutz und Arbeitsmedizin (= Federal Institute for Occupational Health and Safety, Germany)

BCF Bioconcentration factor

BSEF The International Bromine Council

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

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DMEL Derived Minimum Effect Level

DNEL Derived No Effect Level DOC Dissolved organic carbon

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

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

EC European Community

ECHA European Chemicals Agency

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

EEC European Economic Community

EINECS European Inventory of Existing Commercial Chemical Substances

ELINCS European List of Notified Chemical Substances

EN European Norms

EPA United States Environmental Protection Agency (United States of America)

ErCx, EµCx, 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

IUCLIDInternational 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

mg/kg bw mg/kg body weight

mg/kg bw/d, mg/kg bw/day mg/kg body weight/day

mg/kg dw mg/kg dry weight mg/kg wwt mg/kg wet weight

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

NIOSH National Institute for Occupational Safety and Health (USA)

NLP No-longer-Polymer

NOEC, NOEL No Observed Effect Concentration/Level

OECD Organisation for Economic Co-operation and Development

org. organic

OSHA Occupational Safety and Health Administration (USA)

PBT persistent, bioaccumulative and toxic

PE Polyethylene

PNEC Predicted No Effect Concentration

ppm parts per million PVC Polyvinylchloride

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. 6/7/8/9xx-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.

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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

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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