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

1.1 Product identifier

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

Auxiliary agents Lubricant

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 Sens. 1 H317-May cause an allergic skin reaction.

2.2 Label elements

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

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H317-May cause an allergic skin reaction.

P101-If medical advice is needed, have product container or label at hand. P102-Keep out of reach of children.

P261-Avoid breathing vapours or spray. P280-Wear protective gloves.

P333+P313-If skin irritation or rash occurs: Get medical advice / attention.

P501-Dispose of contents / container to an approved waste disposal facility.

2-Octyl-2H-isothiazol-3-one

2.3 Other hazards

The mixture does not contain any vPvB substance (vPvB = very persistent, very bioaccumulative) or is not included under XIII of the regulation (EC) 1907/2006 (< 0,1 %).

The mixture does not contain any PBT substance (PBT = persistent, bioaccumulative, toxic) or is not included under XIII of the regulation (EC) 1907/2006 (< 0,1 %).

The mixture does not contain any substance with endocrine disrupting properties (< 0,1 %).

SECTION 3: Composition/information on ingredients

3.1 Substances

n.a. 3.2 Mixtures

2-Butoxyethanol	Substance for which an EU exposure limit value
	applies.
Registration number (REACH)	01-2119475108-36-XXXX
Index	603-014-00-0
EINECS, ELINCS, NLP, REACH-IT List-No.	203-905-0
CAS	111-76-2
content %	1-<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, Vapours): 3 mg/l

Bronopol (INN)	
Registration number (REACH)	
Index	603-085-00-8
EINECS, ELINCS, NLP, REACH-IT List-No.	200-143-0
CAS	52-51-7
content %	0,01-<0,1

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	TA . T
Classification according to Regulation (EC) 1272/2008 (CLP), M-	Acute Tox. 4, H302
factors	Acute Tox. 4, H312
	Skin Irrit. 2, H315
	Eye Dam. 1, H318
	STOT SE 3, H335
	Aquatic Acute 1, H400 (M=10)
	Aquatic Chronic 1, H410 (M=1)

2-Octyl-2H-isothiazol-3-one	
Registration number (REACH)	
Index	613-112-00-5
EINECS, ELINCS, NLP, REACH-IT List-No.	247-761-7
CAS	26530-20-1
content %	0,0015-<0,01
Classification according to Regulation (EC) 1272/2008 (CLP), M-	EUH071
factors	Acute Tox. 2, H330
	Acute Tox. 3, H301
	Acute Tox. 3, H311
	Skin Corr. 1, H314
	Eye Dam. 1, H318
	Skin Sens. 1A, H317
	Aquatic Acute 1, H400 (M=100)
	Aquatic Chronic 1, H410 (M=100)
Specific Concentration Limits and ATE	Skin Sens. 1A, H317: >=0,0015 %
	ATE (oral): 125 mg/kg
	ATE (dermal): 311 mg/kg
	ATE (as inhalation, Mist): 0,27 mg/l/4h

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

Remove polluted, soaked clothing immediately, wash thoroughly with plenty of water and soap, in case of irritation of the skin (flare), consult a doctor.

Eve contact

Remove contact lenses.

Wash thoroughly for several minutes using copious water. Seek medical help if necessary.

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.

reddening of the skin

Allergic reaction

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

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.

Use working methods according to operating instructions.

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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.

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

Chemical Name	2-Butoxyethanol				
WEL-TWA: 25 ppm (123 mg/m		WEL-STEL:	50 ppm (246 m	ıg/m3) (WEL, EU)	
(98 mg/m3) (EU)	-7 (3 -7 (, -7	
Monitoring procedures:	-	Compur - KITA-	190 U(C) (548 8	73)	
					(E) (Solvent mixtures 3) -
	- :	2014, 2002 - EU	project BC/CEN	N/ENTR/000/2002-16 c	ard 32-2 (2004)
	-	NIOSH 1403 (AI	LCOHOLS IV) - :	2003	, ,
	-	NIOSH 2549 (V	OLATILE ORGA	NIC COMPOUNDS (Se	CREENING)) - 1996
	- (OSHA 83 (2-But	toxyethanol (But	yl Cellosolve)) - 1990	
BMGV: 240 mmol butoxyacetic					Sk (WEL)
© Chemical Name	2-Butoxyethanol				
OELV-8h: 20 ppm (98 mg/m3)	(OELV-8h, EU)	OELV-15min:	50 ppm (246	mg/m3) (OELV-	
,		15min, EU)			
Monitoring procedures:	- 1	Compur - KITA-	190 U(C) (548 8	73)	
		DFG MethNr. 2	2 (D) (Loesungsr	mittelgemische 3), DFG	6 (E) (Solvent mixtures 3) -
	- ;	2014, 2002 - EU	project BC/CEN	N/ENTR/000/2002-16 c	ard 32-2 (2004)
	-	NIOSH 1403 (AI	LCOHOLS IV) - :	2003	
	-	NIOSH 2549 (V	OLATILE ORGA	NIC COMPOUNDS (Se	CREENING)) - 1996
				yl Cellosolve)) - 1990	
BLV: 200 mg/g creatinine (Buto	oxyacetic acid (BAA	(A) in urine, h) (A	CGIH-BEI)	Other information: S	Sk, IOELV
™ Chemical Name	2-Butoxyethanol				
OELV-8h: 20 ppm (98 mg/m3)	(OELV-8h, UE)	OELV-ST:	50 ppm (246 mg	/m3) (OELV-ST, UE)	
Monitoring procedures:	-	Compur - KITA-	190 U(C) (548 8	73)	
		DFG MethNr. 2	2 (D) (Loesungsr	mittelgemische 3), DFG	(E) (Solvent mixtures 3) -
	- ;	2014, 2002 - EU	project BC/CEN	N/ENTR/000/2002-16 c	ard 32-2 (2004)
			LCOHOLS IV) -		
	-	NIOSH 2549 (V	OLATILE ORGA	NIC COMPOUNDS (Se	CREENING)) - 1996
				yl Cellosolve)) - 1990	
BMGV: 240 mmol butoxyacetic	acid/mol creatinine	e in urine, post s	hift (BMGV)	Other information: S	Skin
				·	· · · · · · · · · · · · · · · · · · ·

2-Butoxyethanol						
1	Exposure route / Environmental compartment	Effect on health	Descripto r	Value	Unit	Note

(B) (R) (M)

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	Environment - freshwater		PNEC	8,8	mg/l
	Environment - marine		PNEC	0,88	mg/l
	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
Consumer	Human - inhalation	Long term, local effects	DNEL	123	mg/m3
Consumer	Human - dermal	Short term, systemic effects	DNEL	44,5	mg/kg bw/d
Consumer	Human - inhalation	Short term, systemic effects	DNEL	426	mg/m3
Consumer	Human - oral	Short term, systemic effects	DNEL	13,4	mg/kg bw/d
Consumer	Human - inhalation	Short term, local effects	DNEL	147	mg/m3
Consumer	Human - dermal	Long term, systemic effects	DNEL	38	mg/kg bw/d
Consumer	Human - inhalation	Long term, systemic effects	DNEL	49	mg/m3
Consumer	Human - oral	Long term, systemic effects	DNEL	3,2	mg/kg bw/d
Workers / employees	Human - dermal	Short term, systemic effects	DNEL	89	mg/kg bw/d
Workers / employees	Human - inhalation	Short term, systemic effects	DNEL	663	mg/m3
Workers / employees	Human - inhalation	Short term, local effects	DNEL	246	mg/m3
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	75	mg/kg bw/d
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	98	mg/m3

Bronopol (INN)						
Area of application	Exposure route /	Effect on health	Descripto	Value	Unit	Note
	Environmental		r			
	compartment					
	Environment - freshwater		PNEC	0,01	mg/l	
	Environment - marine		PNEC	0,001	mg/kg	
	Environment - sewage		PNEC	0,43	mg/l	
	treatment plant					
	Environment - sediment,		PNEC	0,041	mg/kg dw	
	freshwater					
	Environment - sediment,		PNEC	0,00328	mg/kg dw	
	marine					
	Environment - soil		PNEC	0,5	mg/kg dw	
Consumer	Human - inhalation	Long term, systemic	DNEL	1,2	mg/m3	
		effects				
Consumer	Human - inhalation	Long term, local	DNEL	1,3	mg/m3	
		effects				
Consumer	Human - dermal	Long term, systemic	DNEL	1,4	mg/kg	
		effects			bw/day	

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Consumer	Human - oral	Long term, systemic effects	DNEL	0,35	mg/kg bw/day	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	4,1	mg/m3	
Workers / employees	Human - inhalation	Long term, local effects	DNEL	4,2	mg/m3	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	2,3	mg/kg bw/day	

- 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).
- © OELV-8h = Occupational Exposure Limit Value (8-hour reference period). (IFV) = Inhalable Fraction and Vapour. (I) = Inhalable Fraction. (R) = Respirable Fraction.
- (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).
- OELV-15min = Occupational Exposure Limit Value (15-minute reference period). (IFV) = Inhalable Fraction and Vapour. (I) = Inhalable Fraction. (R) = Respirable Fraction.
- (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). |

BLV = Biological limit value |

- Other information: 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.
- (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).
- OELV-8h = Occupational Exposure Limit Value 8 h (8-hour reference period as a time-weighted average)
- [9] = Inhalable fraction (S.L.424.24), [10] = Respirable fraction (S.L.424.24).
- (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).
- OELV-ST = Occupational Exposure Limit Value Short-term (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).
- [8] = Short-term exposure limit value in relation to a reference period of 1 minute. (S.L.424.24), [9] = Inhalable fraction (S.L.424.24), [10] = Respirable fraction (S.L.424.24) |
- BMGV = Biological monitoring guidance value EH40. BGW = "Biologischer Grenzwert" (biological limit value, Germany) | Other information: 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. (S.L.424.24), [12] = The mist is defined as the thoracic fraction. (S.L.424.24), [13] = Established in accordance with the Annex to Directive 91/322/EEC. (S.L.424.24), [14] = During exposure monitoring for mercury and its divalent inorganic compounds, account should be taken of relevant biological monitoring techniques that complement the OELV. (S.L.424.24).
- (EU13) = The substance can cause sensitisation of the skin and of the respiratory tract (Directive 2004/37/CE). (EU14) = The

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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 (EN 166) with side protection, with danger of splashes.

Skin protection - Hand protection:

Chemical resistant protective gloves (EN ISO 374).

If applicable

Protective gloves made of butyl (EN ISO 374).

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

Protective nitrile gloves (EN ISO 374).

Minimum layer thickness in mm:

0,5

Permeation time (penetration time) in minutes:

480

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.

Protective hand cream recommended.

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.

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state:

Colour:

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.

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:

Flash point:

Auto-ignition temperature:

There is no information available on this parameter.

There is no information available on this parameter.

There is no information available on this parameter.

Decomposition temperature: There is no information available on this parameter.

H: 6

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

Solubility: Mixable

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

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

Density and/or relative density: 1 g.

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

Particle characteristics: Does not apply to liquids.

9.2 Other information

No information available at present.

SECTION 10: Stability and reactivity

10.1 Reactivity

Not to be expected

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, Aerosol
Skin corrosion/irritation:						n.d.a.

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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-Butoxyethanol						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	ATE	1200	mg/kg			
Acute toxicity, by dermal	LD50	2275	mg/kg	Rabbit	OECD 402 (Acute	
route:					Dermal Toxicity)	
Acute toxicity, by inhalation:	ATE	3	mg/l			Vapours
Skin corrosion/irritation:				Rabbit	Regulation (EC)	Skin Irrit. 2,
					440/2008 B.4	Product
					(DERMAL	removes fat.
					IRRITATION/CORRO	
					SION)	
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:				Mouse	OECD 474	Negative
					(Mammalian	
					Erythrocyte	
					Micronucleus Test)	
Germ cell mutagenicity:				Salmonella	OECD 471 (Bacterial	Negative
				typhimurium	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:				Rat	OECD 451	Negative
					(Carcinogenicity	
					Studies)	
Carcinogenicity:	NOAEC	125	ppm	Mouse	OECD 451	Negative
					(Carcinogenicity	
					Studies)	
Reproductive toxicity:	NOAEL	720	mg/kg			
			bw/d			
Aspiration hazard:						No

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Symptoms:						acidosis, ataxia, breathing difficulties,
						respiratory distress, drowsiness,
						unconsciousnes s, annoyance, coughing, headaches, gastrointestinal disturbances, insomnia, mucous membrane irritation, dizziness, nausea
Specific target organ toxicity - repeated exposure (STOT-RE), oral:	NOAEL	<69	mg/kg bw/d	Rat	OECD 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)	nausea
Specific target organ toxicity - repeated exposure (STOT-RE), dermal:	NOAEL	>150	mg/kg bw/d	Rabbit	OECD 411 (Subchronic Dermal Toxicity - 90-day Study)	

Bronopol (INN)						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	305	mg/kg	Rat	OECD 401 (Acute	data of a
					Oral Toxicity)	diluted
						aequous
						solution
Acute toxicity, by dermal	LD50	>2000	mg/kg	Rat	OECD 402 (Acute	Does not
route:					Dermal Toxicity)	conform with
						EU
A	1.050	0.500	/1/41	D .		classification.
Acute toxicity, by inhalation:	LC50	>0,588	mg/l/4h	Rat		Aerosol,
						Maximum
						achievable concentration.
Skin corrosion/irritation:				Rabbit	OFCD 404 (A cuto	Skin Irrit. 2
Skin corrosion/irritation.				Rabbit	OECD 404 (Acute Dermal	SKIII IIIII. 2
					Irritation/Corrosion)	
Serious eye				Rabbit	(Draize-Test)	Eye Dam. 1
damage/irritation:				Rabbit	(Diaize-Test)	Lye Daill. 1
Respiratory or skin				Guinea pig	OECD 406 (Skin	Not sensitizising
sensitisation:				Currou pig	Sensitisation)	140t 00110ttt210tt1g
Respiratory or skin				Mouse	OECD 429 (Skin	Not sensitizising
sensitisation:					Sensitisation - Local]
					Lymph Node Assay)	
Germ cell mutagenicity:						Negative
Carcinogenicity:						Negative
Specific target organ toxicity -						STOT SE 3,
single exposure (STOT-SE):						H335

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Symptoms:		eyes, reddened, drowsiness, coughing, mucous membrane irritation, nausea and
		nausea and vomiting.

2-Octyl-2H-isothiazol-3-one											
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes					
Acute toxicity, by oral route:	ATE	125	mg/kg								
Acute toxicity, by dermal route:	ATE	311	mg/kg								
Acute toxicity, by inhalation:	ATE	0,27	mg/l/4h			Dust, Mist					
Symptoms:						ataxia, diarrhoea					

11.2. Information on other hazards

Clay Spray												
Art.: 368999												
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).

Clay Spray Art.: 368999 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: n.d.a. 12.1. Toxicity to algae:

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	_				
12.2. Persistence and					The
degradability:					surfactant(s)
9					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.
					ii.a.a.
potential:					
12.4. Mobility in soil:					n.d.a.
12.5. Results of PBT					n.d.a.
and vPvB assessment					
					Dees not onally
12.6. Endocrine					Does not apply
disrupting properties:					to mixtures.
12.7. Other adverse					No information
effects:					available on
0110013.					
					other adverse
					effects on the
					environment.
Other information:					DOC-
					elimination
					degree(complex
					ing organic
					substance)>=
					000//004
	1.00				80%/28d: n.a.
Other information:	AOX		%		According to
					the recipe,
					contains no
					AOX.
					AUA.

2-Butoxyethanol										
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes			
12.1. Toxicity to fish:	LC50	96h	1474	mg/l	Oncorhynchus	OECD 203				
-					mykiss	(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)				

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12.1. Toxicity to	EC50	48h	1550	mg/l	Daphnia magna	OECD 202	
daphnia:						(Daphnia sp.	
						Acute	
						Immobilisation	
						Test)	
12.1. Toxicity to	NOEC/NOEL	21d	100	mg/l	Daphnia magna	OECD 211	
daphnia:						(Daphnia magna	
						Reproduction	
						Test)	
12.1. Toxicity to algae:	EC50	72h	1840	mg/l	Pseudokirchnerie	OECD 201	
					lla subcapitata	(Alga, Growth	
	110-00-00-0					Inhibition Test)	
12.1. Toxicity to algae:	NOEC/NOEL	72h	286	mg/l	Pseudokirchnerie	OECD 201	
					lla subcapitata	(Alga, Growth	
						Inhibition Test)	
12.2. Persistence and		28d	95	%		OECD 301 E	Readily
degradability:						(Ready	biodegradable
						Biodegradability -	
						Modified OECD	
						Screening Test)	
12.2. Persistence and		28d	>99	%		OECD 302 B	Readily
degradability:						(Inherent	biodegradable
						Biodegradability -	
						Zahn-	
						Wellens/EMPA	
40 0 D'	DOE					Test)	01: 1.4
12.3. Bioaccumulative potential:	BCF		3,2				Slight
12.3. Bioaccumulative	Log Pow		0,81			OECD 107	Not to be
potential:						(Partition	expected
						Coefficient (n-	
						octanol/water) -	
						Shake Flask	
						Method)	
12.4. Mobility in soil:	H (Henry)		0,00000	atm*m3/			
			16	mol			
12.5. Results of PBT							No PBT
and vPvB assessment							substance, No
							vPvB
	5040	4.01			<u> </u>	BIN 00 440 T 5	substance
Toxicity to bacteria:	EC10	16h	>700	mg/l	Pseudomonas	DIN 38412 T.8	
					putida		

Bronopol (INN)							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	3	mg/l	Oncorhynchus	OECD 203	
					mykiss	(Fish, Acute	
						Toxicity Test)	
12.1. Toxicity to fish:	LC50	28d	2,61	mg/l	Oncorhynchus	OECD 210	
					mykiss	(Fish, Early-Life	
						Stage Toxicity	
						Test)	
12.1. Toxicity to	NOEC/NOEL	21d	0,06	mg/l	Daphnia magna	OECD 211	
daphnia:						(Daphnia magna	
						Reproduction	
						Test)	
12.1. Toxicity to	EC50	48h	1,4	mg/l	Daphnia magna	OECD 202	
daphnia:						(Daphnia sp.	
						Acute	
						Immobilisation	
						Test)	

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12.1. Toxicity to algae:	EC50	72h	0,068	mg/l	Anabaena flos- aquae	OECD 201 (Alga, Growth	
					'	Inhibition Test)	
12.1. Toxicity to algae:	NOEC/NOEL	72h	0,0025	mg/l	Anabaena flos- aquae	OECD 201 (Alga, Growth Inhibition Test)	
12.2. Persistence and degradability:			>70	%	activated sludge	OECD 301 B (Ready Biodegradability - Co2 Evolution Test)	Readily biodegradable
12.2. Persistence and degradability:			63,5	%		OECD 314 (Simulation Tests to Assess the Biodegradability of Chemicals Discharged in Wastewater)	Biodegradable
12.3. Bioaccumulative potential:	Log Kow		0,22- 0,38			OECD 107 (Partition Coefficient (n- octanol/water) - Shake Flask Method)	
12.3. Bioaccumulative potential:	BCF		3,16			,	
Toxicity to bacteria:	EC50	3h	43	mg/l	activated sludge	OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation))	
Other organisms:	LC50	14d	>500	mg/l	Eisenia foetida	OECD 207 (Earthworm, Acute Toxicity Tests)	
Other information:	COD		600	mg/g			
Other information:	Koc		5				

Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	0,047	mg/l	Oncorhynchus mykiss		
12.1. Toxicity to fish:	NOEC/NOEL	35d	0,0085	mg/l	Pimephales promelas		
12.1. Toxicity to daphnia:	NOEC/NOEL	21d	0,003	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)	
12.1. Toxicity to daphnia:	EC50	48h	0,32	mg/l	Daphnia magna		
12.1. Toxicity to algae:	ErC10	48h	0,00022 4	mg/l	Navicula pelliculosa	OECD 201 (Alga, Growth Inhibition Test)	
12.1. Toxicity to algae:	EC50	72h	0,00129	mg/l	Navicula pelliculosa	OECD 201 (Alga, Growth Inhibition Test)	

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12.2. Persistence and degradability:			25	%			Not readily biodegradable
Toxicity to bacteria:	EC50		30,2	mg/l	activated sludge		
Toxicity to bacteria:	EC20	3h	7,3	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)

07 06 01 aqueous washing liquids and mother liquors

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.

SECTION 14: Transport information

General statements

Transport by road/by rail (ADR/RID)

14.1. UN number or ID number: Not applicable

14.2. UN proper shipping name:

Not applicable

14.3. Transport hazard class(es): Not applicable 14.4. Packing group: Not applicable Not applicable 14.5. Environmental hazards: Tunnel restriction code: Not applicable Not applicable Classification code: Not applicable LQ: Transport category: Not applicable

Transport by sea (IMDG-code)

14.1. UN number or ID number: Not applicable

14.2. UN proper shipping name:

Not applicable

14.3. Transport hazard class(es): Not applicable 14.4. Packing group: Not applicable 14.5. Environmental hazards: Not applicable Marine Pollutant: Not applicable EmS: Not applicable Segregation: Not applicable

Transport by air (IATA)

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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 the protection of young people at work (national implementation of the Directive 94/33/EC)!

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):

< 1,3 %

Treated goods as per Regulation (EU) No. 528/2012 must display specific information on the label.

Please note Article 58 paragraph (3) subparagraph 2 of Regulation (EU) No. 528/2012.

Approval of the biocidal active substance may mean that special conditions are required for marketing the treated goods.

These are indicated in the approval of the active substance.

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):

Classification in accordance with regulation	Evaluation method used
(EC) No. 1272/2008 (CLP)	
Skin Sens. 1, H317	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. H330 Fatal if inhaled.

H317 May cause an allergic skin reaction.

H314 Causes severe skin burns and eye damage.

H301 Toxic if swallowed.

H302 Harmful if swallowed.

H311 Toxic in contact with skin.

H312 Harmful in contact with skin.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

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H331 Toxic if inhaled.

H335 May cause respiratory irritation.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

EUH071 Corrosive to the respiratory tract.

Skin Sens. — Skin sensitization

Acute Tox. — Acute toxicity - inhalation

Acute Tox. — Acute toxicity - oral

Skin Irrit. — Skin irritation

Eye Irrit. — Eye irritation

Acute Tox. — Acute toxicity - dermal Eye Dam. — Serious eye damage

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

Aquatic Acute — Hazardous to the aquatic environment - acute

Aquatic Chronic — Hazardous to the aquatic environment - chronic

Skin Corr. — Skin corrosion

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 Article number Art., Art. no.

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 CLP 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

ECHA European Chemicals Agency

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

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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

n.a. not applicablen.av. not availablen.c. not checkedn.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

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. 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.

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