Safety Data Sheet according to Regulation (EC) No 1907/2006

SDS No.: 267085
V004.3

LIXTOP-TYP 1l KTN 6x1

Revision: 23.11.2018
printing date: 29.10.2021
Replaces version from: 13.02.2014

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

1.1. Product identifier
LIXTOP-TYP 1l KTN 6x1

1.2. Relevant identified uses of the substance or mixture and uses advised against
Intended use:
Neutral Cleaner for Industrial Application

1.3. Details of the supplier of the safety data sheet
Henkel Ltd
Adhesives
Wood Lane End
HP2 4RQ Hemel Hempstead

Great Britain

Phone: +44 (1442) 278000
Fax-no.: +44 (1442) 278071

ua-productsafety.uk@henkel.com

1.4. Emergency telephone number
24 Hours Emergency Tel: +44 (0)1442 278497

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (CLP):
Serious eye damage Category 1
H318 Causes serious eye damage.

2.2. Label elements

Label elements (CLP):

Hazard pictogram:

Contains Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs., compds. with triethanolamine

Butyl glycolate

Signal word: Danger

Hazard statement: H318 Causes serious eye damage.

Precautionary statement: Prevention P280 Wear eye protection/face protection.

Precautionary statement: Response 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 or doctor.

2.3. Other hazards
None if used properly.
Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Base substances of preparation:
solvent
anionic surfactants
non-ionic surfactants

Declaration of the ingredients according to CLP (EC) No 1272/2008:

Hazardous components CAS-No.	EC Number REACH-Reg No.	content	Classification
1-Methoxy -2-propanol 107-98-2	203-539-1 01-2119457435-35	1- < 5 %	Flam. Liq. 3 H226 STOT SE 3 H336
Ethanol 64-17-5	200-578-6 01-2119457610-43	1- < 5 %	Flam. Liq. 2 H225
2-(2-Butoxyethoxy)ethanol 112-34-5	203-961-6 01-2119475104-44	1- < 5 %	Eye Irrit. 2 H319
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs., compds. with triethanolamine 121617-08-1	01-2119971970-28	1- < 3 %	Skin Irrit. 2 H315 Eye Dam. 1 H318
Dipropylene glycol monomethyl ether 34590-94-8	252-104-2 01-2119450011-60	5- < 10 %	
1-Propoxypropan-2-ol 1569-01-3	216-372-4 01-2119474443-37	1- 5 %	Flam. Liq. 3 H226 Eye Irrit. 2 H319
Dodecan-1-ol, ethoxylated; >2.5EO 9002-92-0	500-002-6	0,25- < 1 %	Acute Tox. 4 H302 Eye Dam. 1 H318 Aquatic Acute 1 H400 Aquatic Chronic 3 H412
Butyl glycolate 7397-62-8	230-991-7 01-2119514685-36	1- < 3 %	Eye Dam. 1 H318 Repr. 2 H361

For full text of the H - statements and other abbreviations see section 16 "Other information".

Substances without classification may have community workplace exposure limits available.
Declaration of ingredients according to Detergent Regulation 648/2004/EC

< 5 %	non-ionic surfactants anionic surfactants
Further ingredients	Perfumes

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation:
Fresh air, consult doctor.

Skin contact:
Rinse with running water and soap. Apply replenishing cream. Change all contaminated clothing.
In case of adverse health effects seek medical advice.

Eye contact:
Immediately flush eyes with soft jet of water or eye rinse solution for at least 5 minutes. If pains remain (intensive smarting, sensitivity to light, visual disturbance) continue flushing and contact/seek doctor or hospital.

Ingestion:
Rinse mouth, drink 1-2 glasses of water, do not induce vomiting, consult a doctor.

4.2. Most important symptoms and effects, both acute and delayed
EYE: Irritation, conjunctivitis.

4.3. Indication of any immediate medical attention and special treatment needed
See section: Description of first aid measures

SECTION 5: Firefighting measures

5.1. Extinguishing media
Suitable extinguishing media:
carbon dioxide, foam, powder, water spray jet, fine water spray

Extinguishing media which must not be used for safety reasons:
Water jet (solvent-containing product).

5.2. Special hazards arising from the substance or mixture
Formation of toxic gases is possible during heating or in fires.

5.3. Advice for firefighters
Wear protective equipment.
Wear self-contained breathing apparatus.

Additional information:
In case of fire, keep containers cool with water spray.

SECTION 6: Accidental release measures

General information:
Keep away from sources of ignition and naked flames.

6.1. Personal precautions, protective equipment and emergency procedures
Avoid contact with skin and eyes.
Ensure adequate ventilation.

6.2. Environmental precautions
Do not empty into drains / surface water / ground water.

6.3. Methods and material for containment and cleaning up
Remove with liquid-absorbing material (sand, peat, sawdust).
Dispose of contaminated material as waste according to Section 13.

6.4. Reference to other sections
See advice in section 8

SECTION 7: Handling and storage

7.1. Precautions for safe handling
Avoid skin and eye contact.
Use only in well-ventilated areas.
See advice in section 8
Avoid open flames and sources of ignition.

Hygiene measures:
Do not eat, drink or smoke while working.
Wash hands before work breaks and after finishing work.
Use only in well-ventilated areas.

7.2. Conditions for safe storage, including any incompatibilities
Store in sealed original container.
Store far from foodstuffs.

7.3. Specific end use(s)
Neutral Cleaner for Industrial Application

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational Exposure Limits

Valid for
Great Britain

Ingredient [Regulated substance]	ppm	mg/m³	Value type	Short term exposure limit category / Remarks	Regulatory list
(2-Methoxymethylethoxy)propanol 34590-94-8 [(2-METHOXYMETHYLETHOXY) PROPANOL]	50	308	Time Weighted Average (TWA):		EH40 WEL
(2-Methoxymethylethoxy)propanol 34590-94-8 [(2-METHOXYMETHYLETHOXY) PROPANOL]			Skin designation:	Can be absorbed through the skin.	EH40 WEL
(2-Methoxymethylethoxy)propanol 34590-94-8 [(2-METHOXYMETHYLETHOXY)- PROPANOL]	50	308	Time Weighted Average (TWA):	Indicative	ECTLV
1-Methoxypropan-2-ol 107-98-2 [1-METHOXYPROPAN-2-OL]	150	560	Short Term Exposure Limit (STEL):		EH40 WEL
1-Methoxypropan-2-ol 107-98-2 [1-METHOXYPROPAN-2-OL]			Skin designation:	Can be absorbed through the skin.	EH40 WEL
1-Methoxypropan-2-ol 107-98-2 [1-METHOXYPROPAN-2-OL]	100	375	Time Weighted Average (TWA):		EH40 WEL
1-Methoxypropan-2-ol 107-98-2 [1-METHOXYPROPANOL-2]	100	375	Time Weighted Average (TWA):	Indicative	ECTLV
1-Methoxypropan-2-ol 107-98-2 [1-METHOXYPROPANOL-2]	150	568	Short Term Exposure Limit (STEL):	Indicative	ECTLV
Ethanol 64-17-5 [ETHANOL]	1.000	1.920	Time Weighted Average (TWA):		EH40 WEL
2-(2-Butoxyethoxy)ethanol 112-34-5 [2-(2-BUTOXYETHOXY)ETHANOL]	10	67,5	Time Weighted Average (TWA):		EH40 WEL
2-(2-Butoxyethoxy)ethanol 112-34-5 [2-(2-BUTOXYETHOXY)ETHANOL]	15	101,2	Short Term Exposure Limit (STEL):		EH40 WEL
2-(2-Butoxyethoxy)ethanol 112-34-5 [2-(2-BUTOXYETHOXY)ETHANOL]	10	67,5	Time Weighted Average (TWA):	Indicative	ECTLV
2-(2-Butoxyethoxy)ethanol 112-34-5 [2-(2-BUTOXYETHOXY)ETHANOL]	15	101,2	Short Term Exposure Limit (STEL):	Indicative	ECTLV

Occupational Exposure Limits

Valid for
Ireland

Ingredient [Regulated substance]	ppm	mg/m³	Value type	Short term exposure limit category / Remarks	Regulatory list
(2-Methoxymethylethoxy)propanol 34590-94-8 [(2-METHOXYMETHYLETHOXY)-1- PROPANOL]			Skin designation:	Can be absorbed through the skin.	IR_OEL
(2-Methoxymethylethoxy)propanol 34590-94-8 [(2-METHOXYMETHYLETHOXY)-1- PROPANOL]	50	308	Time Weighted Average (TWA):	Indicative OELV	IR_OEL
(2-Methoxymethylethoxy)propanol 34590-94-8 [(2-METHOXYMETHYLETHOXY)- PROPANOL]	50	308	Time Weighted Average (TWA):	Indicative	ECTLV

1-Methoxypropan-2-ol 107-98-2 [PROPYLENE GLYCOL MONOMETHYL ETHER]	100	375	Time Weighted Average (TWA):	Indicative OELV	IR_OEL
1-Methoxypropan-2-ol 107-98-2 [PROPYLENE GLYCOL MONOMETHYL ETHER]	150	568	Short Term Exposure Limit (STEL):	Indicative OELV	IR_OEL
1-Methoxypropan-2-ol 107-98-2 [1-METHOXYPROPANOL-2]	100	375	Time Weighted Average (TWA):	Indicative	ECTLV
1-Methoxypropan-2-ol 107-98-2 [1-METHOXYPROPANOL-2]	150	568	Short Term Exposure Limit (STEL):	Indicative	ECTLV
Ethanol 64-17-5 [ETHANOL]	1.000		Short Term Exposure Limit (STEL):		IR_OEL
2-(2-Butoxyethoxy)ethanol 112-34-5 [2-(2-BUTOXYETHOXY)ETHANOL]	15	101,2	Short Term Exposure Limit (STEL):	Indicative OELV	IR_OEL
2-(2-Butoxyethoxy)ethanol 112-34-5 [2-(2-BUTOXYETHOXY)ETHANOL]	10	67,5	Time Weighted Average (TWA):	Indicative OELV	IR_OEL
2-(2-Butoxyethoxy)ethanol 112-34-5 [2-(2-BUTOXYETHOXY)ETHANOL]	10	67,5	Time Weighted Average (TWA):	Indicative	ECTLV
2-(2-Butoxyethoxy)ethanol 112-34-5 [2-(2-BUTOXYETHOXY)ETHANOL]	15	101,2	Short Term Exposure Limit (STEL):	Indicative	ECTLV

Predicted No-Effect Concentration (PNEC):

Name on list	Environmental Compartment	Exposure period	Value				Remarks
			mg/l	ppm	mg/kg	others	
1-Methoxy-2-propanol 107-98-2	aqua (freshwater)		10 mg/l				
1-Methoxy-2-propanol 107-98-2	aqua (marine water)		1 mg/l				
1-Methoxy-2-propanol 107-98-2	aqua (intermittent releases)		100 mg/l				
1-Methoxy-2-propanol 107-98-2	sediment (freshwater)				52,3 mg/kg		
1-Methoxy-2-propanol 107-98-2	sediment (marine water)				5,2 mg/kg		
1-Methoxy-2-propanol 107-98-2	Soil				4,59 mg/kg		
1-Methoxy-2-propanol 107-98-2	sewage treatment plant (STP)		100 mg/l				
Ethanol 64-17-5	aqua (freshwater)		0,96 mg/l				
Ethanol 64-17-5	aqua (marine water)		0,79 mg/l				
Ethanol 64-17-5	aqua (intermittent releases)		2,75 mg/l				
Ethanol 64-17-5	sewage treatment plant (STP)		580 mg/l				
Ethanol 64-17-5	sediment (freshwater)				3,6 mg/kg		
Ethanol 64-17-5	sediment (marine water)				2,9 mg/kg		
Ethanol 64-17-5	Soil				0,63 mg/kg		
Ethanol 64-17-5	oral				380 mg/kg		
2-(2-Butoxyethoxy)ethanol 112-34-5	aqua (freshwater)		1,1 mg/l				
2-(2-Butoxyethoxy)ethanol 112-34-5	aqua (marine water)		0,11 mg/l				
2-(2-Butoxyethoxy)ethanol 112-34-5	aqua (intermittent releases)		3,9 mg/l				
2-(2-Butoxyethoxy)ethanol 112-34-5	sediment (freshwater)				4,4 mg/kg		
2-(2-Butoxyethoxy)ethanol 112-34-5	sediment (marine water)				0,44 mg/kg		
2-(2-Butoxyethoxy)ethanol 112-34-5	sewage treatment plant (STP)		200 mg/l				
2-(2-Butoxyethoxy)ethanol 112-34-5	oral				56 mg/kg		
2-(2-Butoxyethoxy)ethanol 112-34-5	Soil				0,32 mg/kg		
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs., compds. with triethanolamine 121617-08-1	aqua (freshwater)		0,268 mg/l				
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs., compds. with triethanolamine 121617-08-1	aqua (marine water)		0,0268 mg/l				
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs., compds. with triethanolamine 121617-08-1	aqua (intermittent releases)		0,268 mg/l				
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs., compds. with triethanolamine 121617-08-1	sewage treatment plant (STP)		7 mg/l				
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs., compds. with triethanolamine 121617-08-1	sediment (freshwater)				8,1 mg/kg		
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs., compds. with triethanolamine	sediment (marine water)				8,1 mg/kg		

121617-08-1							
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs., compds. with triethanolamine 121617-08-1	Soil				35 mg/kg		
34590-94-8	aqua (freshwater)		19 mg/l				
34590-94-8	aqua (marine water)		1,9 mg/l				
34590-94-8	sewage treatment plant (STP)		4168 mg/l				
34590-94-8	sediment (freshwater)				70,2 mg/kg		
34590-94-8	sediment (marine water)				7,02 mg/kg		
34590-94-8	Soil				2,74 mg/kg		
34590-94-8	aqua (intermittent releases)		190 mg/l				
1-Propoxypropan-2-ol 1569-01-3	aqua (freshwater)		0,1 mg/l				
1-Propoxypropan-2-ol 1569-01-3	aqua (marine water)		0,01 mg/l				
1-Propoxypropan-2-ol 1569-01-3	aqua (intermittent releases)		1 mg/l				
1-Propoxypropan-2-ol 1569-01-3	sewage treatment plant (STP)		4 mg/l				
1-Propoxypropan-2-ol 1569-01-3	sediment (freshwater)				0,386 mg/kg		
1-Propoxypropan-2-ol 1569-01-3	sediment (marine water)				0,0386 mg/kg		
1-Propoxypropan-2-ol 1569-01-3	Soil				0,0185 mg/kg		
1-Propoxypropan-2-ol 1569-01-3	Air						
1-Propoxypropan-2-ol 1569-01-3	Predator						
Butyl glycollate 7397-62-8	aqua (freshwater)		0,05 mg/l				
Butyl glycollate 7397-62-8	sewage treatment plant (STP)		232 mg/l				
Butyl glycollate 7397-62-8	sediment (freshwater)				0,203 mg/kg		
Butyl glycollate 7397-62-8	Soil				0,0112 mg/kg		
Butyl glycollate 7397-62-8	aqua (marine water)		0,005 mg/l				
Butyl glycollate 7397-62-8	sediment (marine water)				0,0203 mg/kg		
Butyl glycollate 7397-62-8	aqua (intermittent releases)		0,5 mg/l				

Derived No-Effect Level (DNEL):

Name on list	Application Area	Route of Exposure	Health Effect	Exposure Time	Value	Remarks
1-Methoxy-2-propanol 107-98-2	Workers	Inhalation	Acute/short term exposure - local effects		553,5 mg/m3	
1-Methoxy-2-propanol 107-98-2	Workers	dermal	Long term exposure - systemic effects		183 mg/kg	
1-Methoxy-2-propanol 107-98-2	Workers	Inhalation	Long term exposure - systemic effects		369 mg/m3	
1-Methoxy-2-propanol 107-98-2	General population	dermal	Long term exposure - systemic effects		78 mg/kg	
1-Methoxy-2-propanol 107-98-2	General population	Inhalation	Long term exposure - systemic effects		43,9 mg/m3	
1-Methoxy-2-propanol 107-98-2	General population	oral	Long term exposure - systemic effects		33 mg/kg	
1-Methoxy-2-propanol 107-98-2	Workers	inhalation	Acute/short term exposure - systemic effects		553,5 mg/m3	
Ethanol 64-17-5	Workers	dermal	Long term exposure - systemic effects		343 mg/kg	
Ethanol 64-17-5	Workers	inhalation	Long term exposure - systemic effects		950 mg/m3	
Ethanol 64-17-5	General population	dermal	Long term exposure - systemic effects		206 mg/kg	
Ethanol 64-17-5	General population	inhalation	Long term exposure - systemic effects		114 mg/m3	
Ethanol 64-17-5	General population	oral	Long term exposure - systemic effects		87 mg/kg	
2-(2-Butoxyethoxy)ethanol 112-34-5	Workers	inhalation	Long term exposure - systemic effects		67,5 mg/m3	
2-(2-Butoxyethoxy)ethanol 112-34-5	Workers	dermal	Long term exposure - systemic effects		83 mg/kg	
2-(2-Butoxyethoxy)ethanol 112-34-5	General population	inhalation	Acute/short term exposure - local effects		60,7 mg/m3	
2-(2-Butoxyethoxy)ethanol 112-34-5	General population	inhalation	Long term exposure - systemic effects		40,5 mg/m3	
2-(2-Butoxyethoxy)ethanol 112-34-5	General population	dermal	Long term exposure - systemic effects		50 mg/kg	
2-(2-Butoxyethoxy)ethanol 112-34-5	Workers	inhalation	Acute/short term exposure - local effects		101,2 mg/m3	
2-(2-Butoxyethoxy)ethanol 112-34-5	Workers	inhalation	Long term exposure - local effects		67,5 mg/m3	
2-(2-Butoxyethoxy)ethanol 112-34-5	General population	oral	Long term exposure - systemic effects		5 mg/kg	
2-(2-Butoxyethoxy)ethanol 112-34-5	General population	inhalation	Long term exposure - local effects		40,5 mg/m3	
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs., compds. with triethanolamine 121617-08-1	Workers	dermal	Long term exposure - systemic effects		5,29 mg/kg	
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs., compds. with triethanolamine 121617-08-1	Workers	inhalation	Long term exposure - systemic effects		4,1 mg/m3	
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs., compds. with triethanolamine	General population	dermal	Long term exposure -		1,2 mg/kg	

121617-08-1			systemic effects			
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs., compds. with triethanolamine 121617-08-1	General population	inhalation	Long term exposure - systemic effects		1,01 mg/m3	
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs., compds. with triethanolamine 121617-08-1	General population	oral	Long term exposure - systemic effects		0,58 mg/kg	
34590-94-8	Workers	inhalation	Long term exposure - systemic effects		308 mg/m3	
34590-94-8	Workers	dermal	Long term exposure - systemic effects		283 mg/kg	
34590-94-8	General population	oral	Long term exposure - systemic effects		36 mg/kg	
34590-94-8	General population	inhalation	Long term exposure - systemic effects		37,2 mg/m3	
34590-94-8	General population	dermal	Long term exposure - systemic effects		121 mg/kg	
1-Propoxypropan-2-ol 1569-01-3	Workers	dermal	Long term exposure - systemic effects		82,5 mg/kg	
1-Propoxypropan-2-ol 1569-01-3	Workers	inhalation	Long term exposure - systemic effects		263 mg/m3	
1-Propoxypropan-2-ol 1569-01-3	General population	dermal	Long term exposure - systemic effects		36 mg/kg	
1-Propoxypropan-2-ol 1569-01-3	General population	inhalation	Long term exposure - systemic effects		38 mg/m3	
1-Propoxypropan-2-ol 1569-01-3	General population	oral	Long term exposure - systemic effects		11 mg/kg	
Butyl glycollate 7397-62-8	Workers	dermal	Long term exposure - systemic effects		34,7 mg/kg	
Butyl glycollate 7397-62-8	Workers	Inhalation	Long term exposure - systemic effects		21,2 mg/m3	
Butyl glycollate 7397-62-8	General population	oral	Long term exposure - systemic effects		2 mg/kg	
Butyl glycollate 7397-62-8	General population	dermal	Long term exposure - systemic effects		20,8 mg/kg	
Butyl glycollate 7397-62-8	General population	Inhalation	Long term exposure - systemic effects		43,5 mg/m3	
Butyl glycollate 7397-62-8	General population	dermal	Long term exposure - local effects		0,28 mg/cm2	
Butyl glycollate 7397-62-8	General population	Inhalation	Long term exposure - local effects		43,5 mg/m3	

Biological Exposure Indices:

None

8.2. Exposure controls:

Engineering controls:
Ensure good ventilation/suction at the workplace.

Respiratory protection:
When processing large amounts.
In case of aerosol formation, we recommend wearing of appropriate respiratory protection equipment with ABEK P2 filter (EN 14387).
This recommendation should be matched to local conditions.

Hand protection:
Chemical-resistant protective gloves (EN 374). Suitable materials for short-term contact or splashes (recommended: at least protection index 2, corresponding to > 30 minutes permeation time as per EN 374): Isobutylene-isoprene rubber (IIR; >= 0.7 mm thickness) Suitable materials for longer, direct contact (recommended: protection index 6, corresponding to > 480 minutes permeation time as per EN 374): Isobutylene-isoprene rubber (IIR; >= 0.7 mm thickness) This information is based on literature references and on information provided by glove manufacturers, or is derived by analogy with similar substances. Please note that in practice the working life of chemical-resistant protective gloves may be considerably shorter than the permeation time determined in accordance with EN 374 as a result of the many influencing factors (e.g. temperature). If signs of wear and tear are noticed then the gloves should be replaced.

Eye protection:
Protective goggles
Protective eye equipment should conform to EN166.

Skin protection:
Suitable protective clothing
Protective clothing should conform to EN 14605 for liquid splashes or to EN 13982 for dusts.

Advices to personal protection equipment:

The information provided on personal protective equipment is for guidance purposes only. A full risk assessment should be conducted prior to using this product to determine the appropriate personal protective equipment to suit local conditions. Personal protective equipment should conform to the relevant EN standard.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	liquid clear colourless
Odor	characteristic
Odour threshold	No data available / Not applicable
pH (20 °C (68 °F); Conc.: 100 %)	6 - 10
Melting point	No data available / Not applicable
Solidification temperature	No data available / Not applicable
Initial boiling point	No data available / Not applicable
Flash point	55 - 60 °C (131 - 140 °F); Flash Point, Pensky-Martens The product does not support combustion in any way.
Evaporation rate	No data available / Not applicable
Flammability	No data available / Not applicable
Explosive limits	No data available / Not applicable
Vapour pressure	No data available / Not applicable
Relative vapour density:	No data available / Not applicable
Density (20 °C (68 °F))	0,990 - 1,010 g/cm3
Bulk density	No data available / Not applicable
Solubility	No data available / Not applicable
Solubility (qualitative) (20 °C (68 °F); Solvent: Water)	Miscible
Partition coefficient: n-octanol/water	No data available / Not applicable
Auto-ignition temperature	No data available / Not applicable
Decomposition temperature	No data available / Not applicable
Viscosity	No data available / Not applicable
Viscosity (kinematic)	No data available / Not applicable
Explosive properties	No data available / Not applicable
Oxidising properties	No data available / Not applicable

9.2. Other information

No data available / Not applicable

SECTION 10: Stability and reactivity

10.1. Reactivity
Reaction with oxidants.

10.2. Chemical stability
Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions
See section reactivity

10.4. Conditions to avoid
No decomposition if used according to specifications.

10.5. Incompatible materials
See section reactivity.

10.6. Hazardous decomposition products
None if used for intended purpose.
In case of fire toxic gases can be released.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute oral toxicity:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Species	Method
1-Methoxy-2-propanol 107-98-2	LD50	3.739 mg/kg	rat	EU Method B.1 (Acute Toxicity (Oral))
Ethanol 64-17-5	LD50	10.470 mg/kg	rat	OECD Guideline 401 (Acute Oral Toxicity)
2-(2-Butoxyethoxy)ethanol 112-34-5	LD50	> 2.000 mg/kg	rat	EU Method B.1 (Acute Toxicity (Oral))
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs., compds. with triethanolamine 121617-08-1	LD50	2.925 mg/kg	rat	OECD Guideline 401 (Acute Oral Toxicity)
Dipropylene glycol monomethyl ether 34590-94-8	LD50	8.740 mg/kg	rat	not specified
1-Propoxypropan-2-ol 1569-01-3	LD50	2.490 mg/kg	rat	OECD Guideline 401 (Acute Oral Toxicity)
Butyl glycolate 7397-62-8	LD50	4.240 mg/kg	rat	OECD Guideline 401 (Acute Oral Toxicity)

Acute dermal toxicity:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Species	Method
1-Methoxy-2-propanol 107-98-2	LD50	> 2.000 mg/kg	rat	EU Method B.3 (Acute Toxicity (Dermal)
Ethanol 64-17-5	LD50	> 2.000 mg/kg	rabbit	OECD Guideline 402 (Acute Dermal Toxicity)
2-(2-Butoxyethoxy)ethanol 112-34-5	LD50	2.764 mg/kg	rabbit	OECD Guideline 402 (Acute Dermal Toxicity)
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs., compds. with triethanolamine 121617-08-1	LD50	> 2.000 mg/kg	rabbit	OECD Guideline 402 (Acute Dermal Toxicity)
Dipropylene glycol monomethyl ether 34590-94-8	LD50	9.510 mg/kg	rabbit	OECD Guideline 402 (Acute Dermal Toxicity)
1-Propoxypropan-2-ol 1569-01-3	LD50	3.775 mg/kg	rabbit	OECD Guideline 402 (Acute Dermal Toxicity)

Acute inhalative toxicity:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Test atmosphere	Exposure time	Species	Method
1-Methoxy-2-propanol 107-98-2	LC50	54,6 mg/l		4 h	rat	not specified
Ethanol 64-17-5	LC50	124,7 mg/l	vapour	4 h	rat	OECD Guideline 403 (Acute Inhalation Toxicity)
Dipropylene glycol monomethyl ether 34590-94-8	LC50	55 - 60 mg/l		4 h	rat	not specified
Butyl glycolate 7397-62-8	LC50	> 6,2 mg/l		4 h	rat	not specified

Skin corrosion/irritation:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result	Exposure time	Species	Method
1-Methoxy-2-propanol 107-98-2	not irritating	4 h	rabbit	EU Method B.4 (Acute Toxicity: Dermal Irritation / Corrosion)
Ethanol 64-17-5	not irritating		rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
2-(2-Butoxyethoxy)ethanol 112-34-5	not irritating		rabbit	Draize Test
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs., compds. with triethanolamine 121617-08-1	irritating		rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
Dipropylene glycol monomethyl ether 34590-94-8	not irritating	2 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
Dipropylene glycol monomethyl ether 34590-94-8	not irritating		human	not specified
1-Propoxypropan-2-ol 1569-01-3	not irritating		rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
Butyl glycolate 7397-62-8	not irritating		rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)

Serious eye damage/irritation:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result	Exposure time	Species	Method
1-Methoxy-2-propanol 107-98-2	not irritating		rabbit	EU Method B.5 (Acute Toxicity: Eye Irritation / Corrosion)
Ethanol 64-17-5	not irritating		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
2-(2-Butoxyethoxy)ethanol 112-34-5	moderately irritating		rabbit	not specified
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs., compds. with triethanolamine 121617-08-1	Category 1 (irreversible effects on the eye)		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
Dipropylene glycol monomethyl ether 34590-94-8	not irritating		human	not specified
Dipropylene glycol monomethyl ether 34590-94-8	not irritating		rabbit	Draize Test
1-Propoxypropan-2-ol 1569-01-3	Category 2 (irritant)		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
Butyl glycolate 7397-62-8	highly irritating	24 h	rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)

Respiratory or skin sensitization:

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result	Test type	Species	Method
1-Methoxy-2-propanol 107-98-2	not sensitising	Guinea pig maximisation test	guinea pig	EU Method B.6 (Skin Sensitisation)
Ethanol 64-17-5	not sensitising	Guinea pig maximisation test	guinea pig	OECD Guideline 406 (Skin Sensitisation)
Ethanol 64-17-5	not sensitising	Mouse local lymphnode assay (LLNA)	mouse	OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)
2-(2-Butoxyethoxy)ethanol 112-34-5	not sensitising	Guinea pig maximisation test	guinea pig	Magnusson and Kligman Method
Dipropylene glycol monomethyl ether 34590-94-8	not sensitising	Patch-Test	human	human repeat insult patch test
1-Propoxypropan-2-ol 1569-01-3	not sensitising	Mouse local lymphnode assay (LLNA)	mouse	OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)

Germ cell mutagenicity:

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result	Type of study / Route of administration	Metabolic activation / Exposure time	Species	Method
1-Methoxy-2-propanol 107-98-2	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
1-Methoxy-2-propanol 107-98-2	negative	in vitro mammalian chromosome aberration test	with and without		OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
1-Methoxy-2-propanol 107-98-2	negative	mammalian cell gene mutation assay	without		OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
Ethanol 64-17-5	negative	bacterial reverse mutation assay (e.g Ames test)			OECD Guideline 471 (Bacterial Reverse Mutation Assay)
Ethanol 64-17-5	negative	in vitro mammalian chromosome aberration test	without		OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
Ethanol 64-17-5	negative	mammalian cell gene mutation assay	with and without		OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
2-(2-Butoxyethoxy)ethanol 112-34-5	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
Dipropylene glycol monomethyl ether 34590-94-8	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		Ames Test
Dipropylene glycol monomethyl ether 34590-94-8	negative	yeast cytogenetic assay	with and without		OECD Guideline 481 (Genetic Toxicology: Saccharomyces cerevisiae, Mitotic Recombination Assay)
Dipropylene glycol monomethyl ether 34590-94-8	negative	in vitro mammalian chromosome aberration test	with and without		JAPAN: Guidelines for Screening Mutagenicity Testing Of Chemicals
Dipropylene glycol monomethyl ether 34590-94-8	negative	DNA damage and repair assay, unscheduled DNA synthesis in mammalian cells in vitro	not applicable		OECD Guideline 482 (Genetic Toxicology: DNA Damage and Repair, Unscheduled DNA Synthesis in Mammalian Cells In Vitro)
Dipropylene glycol monomethyl ether 34590-94-8	negative	mammalian cell gene mutation assay	without		OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
Dipropylene glycol monomethyl ether 34590-94-8	negative	mammalian cell gene mutation assay	with and without		OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
1-Propoxypropan-2-ol 1569-01-3	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
1-Propoxypropan-2-ol 1569-01-3	negative	in vitro mammalian chromosome aberration test	with and without		OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
1-Propoxypropan-2-ol 1569-01-3	negative	mammalian cell gene mutation assay	with and without		OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
Butyl glycolate 7397-62-8	negative	bacterial reverse mutation assay (e.g Ames test)	with		OECD Guideline 472 (Genetic Toxicology: Escherichia coli, Reverse Mutation Assay)
Butyl glycolate 7397-62-8	negative	bacterial reverse mutation assay (e.g Ames test)	with		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
Butyl glycolate 7397-62-8	positive	bacterial reverse mutation assay (e.g Ames test)	without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
Butyl glycolate 7397-62-8	negative	in vitro mammalian chromosome aberration test	with and without		OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
1-Methoxy-2-propanol 107-98-2	negative	intraperitoneal		mouse	OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)
Ethanol	negative				OECD Guideline 475

64-17-5					(Mammalian Bone Marrow Chromosome Aberration Test)

Carcinogenicity

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous components CAS-No.	Result	Route of application	Exposure time / Frequency of treatment	Species	Sex	Method
1-Methoxy-2-propanol 107-98-2	not carcinogenic	inhalation: vapour	2 y 6 hr/day, 5 days/wk	rat	male/female	OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies)
Ethanol 64-17-5		oral: unspecified		rat		not specified
Ethanol 64-17-5		dermal		mouse	female	not specified
Ethanol 64-17-5		inhalation		mouse	male	not specified
Dipropylene glycol monomethyl ether 34590-94-8	not carcinogenic	inhalation: vapour	2 years 6 h/day; 5 days/week	rat	male/female	OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies)

Reproductive toxicity:

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result / Value	Test type	Route of application	Species	Method
1-Methoxy-2-propanol 107-98-2	NOAEL P 300 ppm NOAEL F1 1000 ppm NOAEL F2 1000 ppm	Two generation study	inhalation: vapour	rat	OECD Guideline 416 (Two-Generation Reproduction Toxicity Study)
Ethanol 64-17-5	NOAEL P 13.800 mg/kg	Two generation study	oral: unspecified	mouse	OECD Guideline 416 (Two-Generation Reproduction Toxicity Study)
Dipropylene glycol monomethyl ether 34590-94-8	NOAEL P 300 ppm NOAEL F1 1000 ppm NOAEL F2 1000 ppm	two-generation study	inhalation: vapour	rat	OECD Guideline 416 (Two-Generation Reproduction Toxicity Study)
1-Propoxypropan-2-ol 1569-01-3	NOAEL P 300 ppm NOAEL F1 1000 ppm NOAEL F2 1000 ppm		inhalation	rat	OECD Guideline 416 (Two-Generation Reproduction Toxicity Study)

STOT-single exposure:

No data available.

STOT-repeated exposure::

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result / Value	Route of application	Exposure time / Frequency of treatment	Species	Method
1-Methoxy-2-propanol 107-98-2	NOAEL 1000 ppm	inhalation	13 weeks 6 hours/day; 5 days/week	rat	OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day)
1-Methoxy-2-propanol 107-98-2	NOAEL 919 mg/kg	oral: gavage	35 d 5 d/w	rat	OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity in Rodents)
2-(2-Butoxyethoxy)ethanol 112-34-5	NOAEL < 50 mg/kg	oral: gavage	90 days 5 days/week	rat	not specified
2-(2-Butoxyethoxy)ethanol 112-34-5	NOAEL 2 - 6 ppm	inhalation	90 days	rat	not specified
2-(2-Butoxyethoxy)ethanol 112-34-5	NOAEL > 2.000 mg/kg	dermal	13 weeks 6 hours/day, 5 days/week	rat	not specified
Dipropylene glycol monomethyl ether 34590-94-8	NOAEL > 50 mg/l	inhalation	2 weeks (9 exposures) 6 hours/day; 5 days/week	rabbit	not specified
Dipropylene glycol monomethyl ether 34590-94-8	NOAEL 1.000 mg/kg	oral: gavage	4 weeks daily	rat	not specified
Dipropylene glycol monomethyl ether 34590-94-8	NOAEL 200 ppm	inhalation: vapour	13 weeks 6 hours/day; 5 days/week	rat	OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day)
Dipropylene glycol monomethyl ether 34590-94-8	NOAEL 2.850 mg/kg	dermal	90 d 5 days/week	rabbit	OECD Guideline 411 (Subchronic Dermal Toxicity: 90-Day Study)
Dipropylene glycol monomethyl ether 34590-94-8	NOAEL > 1.000 mg/kg	dermal	4 weeks 4 hours/day; 5 days/week	rat	OECD Guideline 410 (Repeated Dose Dermal Toxicity: 21/28-Day Study)
1-Propoxypropan-2-ol 1569-01-3		inhalation	6 hours per day 5 days per week	rat	OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day)
Butyl glycolate 7397-62-8	NOAEL 200 mg/kg	oral: unspecified	28 days 7 times/w	rat	OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity in Rodents)

Aspiration hazard:

No data available.

SECTION 12: Ecological information

General ecological information:
Do not empty into drains / surface water / ground water.

12.1. Toxicity

Toxicity (Fish):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
1-Methoxy-2-propanol 107-98-2	LC50	20.800 mg/l	96 h	Pimephales promelas	OECD Guideline 203 (Fish, Acute Toxicity Test)
Ethanol 64-17-5	LC50	14.200 mg/l	96 h	Pimephales promelas	OECD Guideline 203 (Fish, Acute Toxicity Test)
2-(2-Butoxyethoxy)ethanol 112-34-5	LC50	1.300 mg/l	96 h	Lepomis macrochirus	OECD Guideline 203 (Fish, Acute Toxicity Test)
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs., compds. with triethanolamine 121617-08-1	LC50	> 1 - 10 mg/l	96 h	Brachydanio rerio (new name: Danio rerio)	OECD Guideline 203 (Fish, Acute Toxicity Test)
Dipropylene glycol monomethyl ether 34590-94-8	LC50	> 1.000 mg/l	96 h	Poecilia reticulata	OECD Guideline 203 (Fish, Acute Toxicity Test)
1-Propoxypropan-2-ol 1569-01-3	LC50	1.732 mg/l	96 h	Brachydanio rerio (new name: Danio rerio)	ISO 7346-1 (Determination of the Acute Lethal Toxicity of Substances to a Freshwater Fish [Brachydanio rerio Hamilton-Buchanan (Teleostei, Cyprinidae)]
Dodecan-1-ol, ethoxylated; >2.5EO 9002-92-0	LC50	> 0,1 - 1 mg/l	96 h	Brachydanio rerio (new name: Danio rerio)	OECD Guideline 203 (Fish, Acute Toxicity Test)
Butyl glycolate 7397-62-8	LC50	1.730 mg/l	96 h	Pimephales sp.	OECD Guideline 203 (Fish, Acute Toxicity Test)

Toxicity (Daphnia):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
1-Methoxy-2-propanol 107-98-2	EC50	23.300 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Ethanol 64-17-5	EC50	5.012 mg/l	48 h	Ceriodaphnia dubia	other guideline:
2-(2-Butoxyethoxy)ethanol 112-34-5	EC50	3.300 mg/l	24 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs., compds. with triethanolamine 121617-08-1	EC50	> 10 - 100 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Dipropylene glycol monomethyl ether 34590-94-8	EC50	1.919 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
1-Propoxypropan-2-ol 1569-01-3	EC50	> 100 mg/l	48 h	Daphnia magna	other guideline:
Dodecan-1-ol, ethoxylated; >2.5EO 9002-92-0	EC50	> 0,1 - 1 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Butyl glycolate 7397-62-8	EC50	280 mg/l	24 h	Daphnia magna	not specified

Chronic toxicity to aquatic invertebrates

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances	Value	Value	Exposure time	Species	Method

CAS-No.	type				
Ethanol 64-17-5	NOEC	9,6 mg/l	9 d	Daphnia magna	not specified
Dipropylene glycol monomethyl ether 34590-94-8	NOEC	0,5 mg/l	22 d	Daphnia magna	OECD 211 (Daphnia magna, Reproduction Test)

Toxicity (Algae):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
1-Methoxy-2-propanol 107-98-2	EC50	> 1.000 mg/l	7 d	Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)	OECD Guideline 201 (Alga, Growth Inhibition Test)
Ethanol 64-17-5	EC50	275 mg/l	72 h	Chlorella vulgaris	OECD Guideline 201 (Alga, Growth Inhibition Test)
Ethanol 64-17-5	EC10	11,5 mg/l	72 h	Chlorella vulgaris	OECD Guideline 201 (Alga, Growth Inhibition Test)
2-(2-Butoxyethoxy)ethanol 112-34-5	NOEC	> 100 mg/l	96 h	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)	OECD Guideline 201 (Alga, Growth Inhibition Test)
2-(2-Butoxyethoxy)ethanol 112-34-5	EC50	> 100 mg/l	96 h	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)	OECD Guideline 201 (Alga, Growth Inhibition Test)
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs., compds. with triethanolamine 121617-08-1	EC50	> 1 - 10 mg/l	72 h	Desmodesmus subspicatus (reported as Scenedesmus subspicatus)	OECD Guideline 201 (Alga, Growth Inhibition Test)
Dipropylene glycol monomethyl ether 34590-94-8	EC50	> 969 mg/l	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
Dipropylene glycol monomethyl ether 34590-94-8	NOEC	969 mg/l	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
1-Propoxypropan-2-ol 1569-01-3	EC50	1.466 mg/l	96 h	Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)	EPA OTS 797.1050 (Algal Toxicity, Tiers I and II)
Dodecan-1-ol, ethoxylated; >2.5EO 9002-92-0	EC10	> 0,1 - 1 mg/l	72 h	not specified	OECD Guideline 201 (Alga, Growth Inhibition Test)

Toxicity to microorganisms

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
1-Methoxy-2-propanol 107-98-2	EC0	> 1.000 mg/l	30 min		OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)
Ethanol 64-17-5	IC50	> 1.000 mg/l	3 h	activated sludge	OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)
2-(2-Butoxyethoxy)ethanol 112-34-5	EC10	> 1.995 mg/l	30 min	activated sludge, industrial	OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs., compds. with triethanolamine 121617-08-1	EC10	50 mg/l	18 h	Pseudomonas putida	DIN 38412, part 8 (Pseudomonas Zellvermehrungshemm-Test)
Dipropylene glycol monomethyl ether 34590-94-8	EC10	4.168 mg/l	18 h	Pseudomonas putida	other guideline:
1-Propoxypropan-2-ol 1569-01-3	EC0	1.000 mg/l	16 h	Pseudomonas putida	DIN 38412, part 8 (Pseudomonas Zellvermehrungshemm-Test)
Butyl glycolate 7397-62-8	EC10	454 mg/l	18 h		not specified

12.2. Persistence and degradability

Hazardous substances CAS-No.	Result	Test type	Degradability	Exposure time	Method
1-Methoxy-2-propanol 107-98-2	readily biodegradable	aerobic	90 %	29 d	OECD Guideline 301 E (Ready biodegradability: Modified OECD Screening Test)
Ethanol 64-17-5	readily biodegradable	aerobic	80 - 85 %	30 d	OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test)
2-(2-Butoxyethoxy)ethanol 112-34-5	inherently biodegradable	aerobic	100 %	9 d	OECD Guideline 302 B (Inherent biodegradability: Zahn-Wellens/EMPA Test)
2-(2-Butoxyethoxy)ethanol 112-34-5	readily biodegradable	aerobic	> 60 %	28 d	OECD Guideline 301 C (Ready Biodegradability: Modified MITI Test (I))
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs., compds. with triethanolamine 121617-08-1	readily biodegradable	aerobic	> 99 %	28 d	OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test)
Dipropylene glycol monomethyl ether 34590-94-8	readily biodegradable	aerobic	76 %	28 d	OECD Guideline 301 F (Ready Biodegradability: Manometric Respirometry Test)
Dipropylene glycol monomethyl ether 34590-94-8	inherently biodegradable	aerobic	94 %	13 d	OECD Guideline 302 B (Inherent biodegradability: Zahn-Wellens/EMPA Test)
1-Propoxypropan-2-ol 1569-01-3	readily biodegradable	aerobic	91,5 %	28 d	OECD Guideline 301 A (new version) (Ready Biodegradability: DOC Die Away Test)
Dodecan-1-ol, ethoxylated; >2.5EO 9002-92-0	readily biodegradable	aerobic	> 60 %	28 day	OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test)
Butyl glycolate 7397-62-8		aerobic	> 90 %	5 d	OECD Guideline 302 B (Inherent biodegradability: Zahn-Wellens/EMPA Test)
Butyl glycolate 7397-62-8	readily biodegradable	aerobic	81 %	28 d	OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test)

12.3. Bioaccumulative potential

No data available.

12.4. Mobility in soil

Hazardous substances CAS-No.	LogPow	Temperature	Method
1-Methoxy-2-propanol 107-98-2	-0,49		not specified
Ethanol 64-17-5	-0,35	24 °C	not specified
2-(2-Butoxyethoxy)ethanol 112-34-5	1	20 °C	OECD Guideline 117 (Partition Coefficient (n-octanol / water), HPLC Method)
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs., compds. with triethanolamine 121617-08-1	1,5	23 °C	OECD Guideline 123 (Partition Coefficient (1-Octanol / Water), Slow-Stirring Method)
Dipropylene glycol monomethyl ether 34590-94-8	0,004	25 °C	OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method)
1-Propoxypropan-2-ol 1569-01-3	0,621	20 °C	QSAR (Quantitative Structure Activity Relationship)

12.5. Results of PBT and vPvB assessment

Hazardous substances CAS-No.	PBT/ vPvB
1-Methoxy-2-propanol 107-98-2	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.
Ethanol 64-17-5	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.
2-(2-Butoxyethoxy)ethanol 112-34-5	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs., compds. with triethanolamine 121617-08-1	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.
Dipropylene glycol monomethyl ether 34590-94-8	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.
1-Propoxypropan-2-ol 1569-01-3	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.
Dodecan-1-ol, ethoxylated; >2.5EO 9002-92-0	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.
Butyl glycolate 7397-62-8	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.

12.6. Other adverse effects

If acidic or alkaline products are discharged into wastewater installations care must be taken that the discharged wastewater has a pH in the range pH 6 - 10, as pH variations could cause disorders in wastewater channels and biological sewage treatment plants. The local discharge regulations take precedence.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product disposal:
Waste incineration with the approval of the responsible local authority.
In consultation with the responsible local authority, must be subjected to special treatment.

Waste code
070604

Waste code
The valid EWC waste code numbers are source-related. The manufacturer is therefore unable to specify EWC waste codes for the articles or products used in the various sectors. The EWC codes listed are intended as a recommendation for users. We will be happy to advise you.

SECTION 14: Transport information

14.1. UN number

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

14.2. UN proper shipping name

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

14.3. Transport hazard class(es)

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

14.4. Packing group

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

14.5. Environmental hazards

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

14.6. Special precautions for user

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

not applicable

SECTION 15: Regulatory information

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

VOC content (2010/75/EU)	23,7 %

15.2. Chemical safety assessment

A chemical safety assessment has not been carried out.

National regulations/information (Great Britain):

Remarks	Control of Substances Hazardous to Health Regulations (COSHH), and related guidance, e.g COSHH Essentials. EH40 Occupational Exposure Limits Chemicals (Hazard Information & Packaging for Supply) Regulations. The Personnel Protective Equipment at Work Regulations. The Carriage of Dangerous Goods by Road Regulations. The Health & Safety at Work Act 1974. (Note: Use latest editions/amendments of above referenced documents.)

SECTION 16: Other information

The labelling of the product is indicated in Section 2. The full text of all abbreviations indicated by codes in this safety data sheet are as follows:

H225 Highly flammable liquid and vapor.
H226 Flammable liquid and vapor.
H302 Harmful if swallowed.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.
H361 Suspected of damaging fertility or the unborn child.
H400 Very toxic to aquatic life.
H412 Harmful to aquatic life with long lasting effects.

Further information:

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