



# Safety Data Sheet

According to Regulation (EC) No 1907/2006

## 1180 - Carefree Mop & Shine 5ltr

Revision: 2020-03-08

Version: 06.0

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

#### 1.1 Product identifier

**Trade name:** 1180 - Carefree Mop & Shine 5ltr x 2

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

##### Identified uses:

For professional use only.

AISE-P401 - Floor cleaner. Semi-automatic process

AISE-P403 - Floor cleaner. Manual process

**Uses advised against:** Uses other than those identified are not recommended

#### 1.3 Details of the supplier of the safety data sheet

Merton Group UK Ltd, Unit 9 Foxholes Road, off Golf Course Lane, Leicester LE3 1TH

#### Contact details

Merton Group UK Ltd

Unit 9 Foxholes Road, off Golf Course Lane, Leicester LE3 1TH, United Kingdom

Tel: 0116 231 4040, Fax: 0116 287 4756

Regulatory Email: headoffice@mertongroup.co.uk

#### 1.4 Emergency telephone number

Seek medical advice (show the label or safety data sheet where possible)

For medical or environmental emergency only:

call 0800 052 0185

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

Eye Irrit. 2 (H319)

Aquatic Chronic 3 (H412)

#### 2.2 Label elements



**Signal word:** Warning.

Contains 2-methyl-2H-isothiazol-3-one (Methylisothiazolinone)

#### Hazard statements:

H319 - Causes serious eye irritation.

EUH208 - May produce an allergic reaction.

H412 - Harmful to aquatic life with long lasting effects.

#### 2.3 Other hazards

No other hazards known. The product does not meet the criteria for PBT or vPvB in accordance with Regulation (EC) No 1907/2006, Annex XIII.

### SECTION 3: Composition/information on ingredients

#### 3.2 Mixtures

Ingredient(s)	EC number	CAS number	REACH number	Classification	Notes	Weight percent
2-(2-ethoxyethoxy)ethanol	203-919-7	111-90-0	01-2119475105-42	Not classified as hazardous		3-10
tris(2-butoxyethyl) phosphate	201-122-9	78-51-3	01-2119485835-23	Not classified as hazardous		1-3

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ethanediol	203-473-3	107-21-1	01-2119456816-28	Acute Tox. 4 (H302) STOT RE 2 (H373)	1-3
alkyl alcohol ethoxylate	[4]	69011-36-5	[4]	Acute Tox. 4 (H302) Eye Dam. 1 (H318)	1-3
zinc oxide	215-222-5	1314-13-2	01-2119463881-32	Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	0.1-1
ammonia	215-647-6	1336-21-6	01-2119488876-14	Skin Corr. 1B (H314) STOT SE 3 (H335) Eye Dam. 1 (H318) Aquatic Acute 1 (H400) Aquatic Chronic 2 (H411)	0.1-1

Workplace exposure limit(s), if available, are listed in subsection 8.1.

[4] Exempted: polymer. See Article 2(9) of Regulation (EC) No 1907/2006.

For the full text of the H and EUH phrases mentioned in this Section, see Section 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

<b>Inhalation:</b>	Get medical attention or advice if you feel unwell.
<b>Skin contact:</b>	Wash skin with plenty of lukewarm, gently flowing water. If skin irritation occurs: Get medical advice or attention.
<b>Eye contact:</b>	Hold eyelids apart and flush eyes with plenty of lukewarm water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If irritation occurs and persists, get medical attention.
<b>Ingestion:</b>	Rinse mouth. Immediately drink 1 glass of water. Never give anything by mouth to an unconscious person. Get medical attention or advice if you feel unwell.
<b>Self-protection of first aider:</b>	Consider personal protective equipment as indicated in subsection 8.2.

### 4.2 Most important symptoms and effects, both acute and delayed

<b>Inhalation:</b>	No known effects or symptoms in normal use.
<b>Skin contact:</b>	No known effects or symptoms in normal use.
<b>Eye contact:</b>	Causes severe irritation.
<b>Ingestion:</b>	No known effects or symptoms in normal use.

### 4.3 Indication of any immediate medical attention and special treatment needed

No information available on clinical testing and medical monitoring. Specific toxicological information on substances, if available, can be found in section 11.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Carbon dioxide. Dry powder. Water spray jet. Fight larger fires with water spray jet or alcohol-resistant foam.

### 5.2 Special hazards arising from the substance or mixture

No special hazards known.

### 5.3 Advice for firefighters

As in any fire, wear self contained breathing apparatus and suitable protective clothing including gloves and eye/face protection.

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

No special measures required.

### 6.2 Environmental precautions

Do not allow to enter drainage system, surface or ground water. Do not allow to enter the ground/soil. Dilute with plenty of water. Inform responsible authorities in case undiluted product reaches drainage system, surface or ground water or the ground/soil.

### 6.3 Methods and material for containment and cleaning up

Dyke to collect large liquid spills. Absorb with liquid-binding material (sand, diatomite, universal binders, sawdust). Do not place spilled materials back into the original container. Collect in closed and suitable containers for disposal.

### 6.4 Reference to other sections

For personal protective equipment see subsection 8.2. For disposal considerations see section 13.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

#### Measures to prevent fire and explosions:

No special precautions required.

**Measures required to protect the environment:**

For environmental exposure controls see subsection 8.2.

**Advices on general occupational hygiene:**

Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs. Do not mix with other products unless advised by Diversey. Wash hands before breaks and at the end of workday. Use only with adequate ventilation. See chapter 8.2, Exposure controls / Personal protection.

**7.2 Conditions for safe storage, including any incompatibilities**

Store in accordance with local and national regulations. Store in a closed container. Keep only in original packaging. For conditions to avoid see subsection 10.4. For incompatible materials see subsection 10.5.

**7.3 Specific end use(s)**

No specific advice for end use available.

**SECTION 8: Exposure controls/personal protection****8.1 Control parameters****Workplace exposure limits**

Air limit values, if available:

Ingredient(s)	UK - Long term value(s)	UK - Short term value(s)
ethanediol	10 mg/m <sup>3</sup> particulates 20 ppm vapour 52 mg/m <sup>3</sup> vapour	40 ppm vapour 104 mg/m <sup>3</sup> vapour 30 mg/m <sup>3</sup> particulate
ammonia	25 ppm 18 mg/m <sup>3</sup>	35 ppm 25 mg/m <sup>3</sup>

Biological limit values, if available:

**Recommended monitoring procedures, if available:**

Additional exposure limits under the conditions of use, if available:

**DNEL/DMEL and PNEC values****Human exposure**

DNEL oral exposure - Consumer (mg/kg bw)

Ingredient(s)	Short term - Local effects	Short term - Systemic effects	Long term - Local effects	Long term - Systemic effects
2-(2-ethoxyethoxy)ethanol	-	-	-	25
tris(2-butoxyethyl) phosphate	-	-	-	0.25
ethanediol	-	-	-	-
alkyl alcohol ethoxylate	-	-	-	-
zinc oxide	-	-	-	0.83
ammonia	-	-	-	-

DNEL dermal exposure - Worker

Ingredient(s)	Short term - Local effects	Short term - Systemic effects (mg/kg bw)	Long term - Local effects	Long term - Systemic effects (mg/kg bw)
2-(2-ethoxyethoxy)ethanol	No data available	-	No data available	50
tris(2-butoxyethyl) phosphate	-	-	0.02 mg/cm <sup>2</sup> skin	14
ethanediol	No data available	-	No data available	106
alkyl alcohol ethoxylate	-	-	-	-
zinc oxide	No data available	-	No data available	83
ammonia	No data available	6.8	No data available	6.8

DNEL dermal exposure - Consumer

Ingredient(s)	Short term - Local effects	Short term - Systemic effects (mg/kg bw)	Long term - Local effects	Long term - Systemic effects (mg/kg bw)
2-(2-ethoxyethoxy)ethanol	No data available	-	No data available	25
tris(2-butoxyethyl) phosphate	-	-	-	7
ethanediol	No data available	-	No data available	53
alkyl alcohol ethoxylate	-	-	-	-
zinc oxide	No data available	-	No data available	83
ammonia	No data available	-	No data available	-

DNEL inhalatory exposure - Worker (mg/m<sup>3</sup>)

Ingredient(s)	Short term - Local effects	Short term - Systemic effects	Long term - Local effects	Long term - Systemic effects
2-(2-ethoxyethoxy)ethanol	-	-	18	37
tris(2-butoxyethyl) phosphate	-	-	-	3.5
ethanediol	-	-	35	-
alkyl alcohol ethoxylate	-	-	-	No data available
zinc oxide	-	-	-	5
ammonia	36	47.6	14	47.6

DNEL inhalatory exposure - Consumer (mg/m<sup>3</sup>)

Ingredient(s)	Short term - Local effects	Short term - Systemic effects	Long term - Local effects	Long term - Systemic effects
2-(2-ethoxyethoxy)ethanol	-	-	9	18.3
tris(2-butoxyethyl) phosphate	-	-	-	1
ethanediol	-	-	7	-
alkyl alcohol ethoxylate	No data available	No data available	-	-
zinc oxide	-	-	-	2.5
ammonia	-	-	-	-

**Environmental exposure**

Environmental exposure - PNEC

Ingredient(s)	Surface water, fresh (mg/l)	Surface water, marine (mg/l)	Intermittent (mg/l)	Sewage treatment plant (mg/l)
2-(2-ethoxyethoxy)ethanol	0.74	0.074	10	500
tris(2-butoxyethyl) phosphate	0.024	0.0024	0.24	8.96
ethanediol	10	1	10	199.5
alkyl alcohol ethoxylate	-	-	-	-
zinc oxide	0.0206	0.0061	-	0.052
ammonia	0.0011	0.011	-	-

Environmental exposure - PNEC, continued

Ingredient(s)	Sediment, freshwater (mg/kg)	Sediment, marine (mg/kg)	Soil (mg/kg)	Air (mg/m³)
2-(2-ethoxyethoxy)ethanol	2.74	0.274	0.15	-
tris(2-butoxyethyl) phosphate	0.845	0.0845	0.16575	-
ethanediol	37	3.7	1.53	-
alkyl alcohol ethoxylate	-	-	-	-
zinc oxide	117.8	0.0565	0.0356	-
ammonia	-	-	-	-

**8.2 Exposure controls**

The following information applies for the uses indicated in subsection 1.2 of the Safety Data Sheet.

If available, please refer to the product information sheet for application and handling instructions.

Normal use conditions are assumed for this section.

Recommended safety measures for handling the undiluted product:

**Appropriate engineering controls:** No special requirements under normal use conditions.  
**Appropriate organisational controls:** Avoid direct contact and/or splashes where possible. Train personnel.

**Personal protective equipment**

**Eye / face protection:** Safety glasses are not normally required. However, their use is recommended in those cases where splashes may occur when handling the product (EN 166).

**Hand protection:** No special requirements under normal use conditions.

**Body protection:** No special requirements under normal use conditions.

**Respiratory protection:** No special requirements under normal use conditions.

**Environmental exposure controls:** No special requirements under normal use conditions.

**SECTION 9: Physical and chemical properties****9.1 Information on basic physical and chemical properties**

Information in this section refers to the product, unless it is specifically stated that substance data is listed

	Method / remark
<b>Physical State:</b> Liquid	
<b>Colour:</b> Milky White	
<b>Odour:</b> Slightly perfumed	
<b>Odour threshold:</b> Not applicable	
<b>pH</b> ≈ 8 (neat)	ISO 4316
<b>Melting point/freezing point (°C):</b> Not determined	Not relevant to classification of this product
<b>Initial boiling point and boiling range (°C):</b> Not determined	See substance data

Substance data, boiling point

Ingredient(s)	Value (°C)	Method	Atmospheric pressure (hPa)
2-(2-ethoxyethoxy)ethanol	197	Method not given	1013
tris(2-butoxyethyl) phosphate	210-220	Method not given	5.2
ethanediol	194-205	Method not given	1013
alkyl alcohol ethoxylate	> 200	Method not given	
zinc oxide	No data available		
ammonia	28.5	Method not given	

## Method / remark

**Flammability (liquid):** Not flammable.**Flash point (°C):** Not applicable.**Sustained combustion:** Not applicable.

( UN Manual of Tests and Criteria, section 32, L.2 )

**Evaporation rate:** Not relevant for classification of this product.**Flammability (solid, gas):** Not applicable to liquids**Upper/lower flammability limit (%):** Not determined

See substance data

Substance data, flammability or explosive limits, if available:

Ingredient(s)	Lower limit (% vol)	Upper limit (% vol)
2-(2-ethoxyethoxy)ethanol	1.2	11.6
ethanediol	3.2	15.3
ammonia	15.4	33.6

## Method / remark

**Vapour pressure:** Not determined

See substance data

Substance data, vapour pressure

Ingredient(s)	Value (Pa)	Method	Temperature (°C)
2-(2-ethoxyethoxy)ethanol	20	Method not given	20
tris(2-butoxyethyl) phosphate	0.0000152	Method not given	25
ethanediol	12.3	Non guideline test	25
alkyl alcohol ethoxylate	Negligible	Method not given	20-25
zinc oxide	No data available		
ammonia	586500	Method not given	20

## Method / remark

**Vapour density:** Not determined**Relative density:** ≈ 1.03 (20 °C)**Solubility in / Miscibility with Water:** Fully miscibleNot relevant to classification of this product  
OECD 109 (EU A.3)

Substance data, solubility in water

Ingredient(s)	Value (g/l)	Method	Temperature (°C)
2-(2-ethoxyethoxy)ethanol	Soluble	Method not given	20
tris(2-butoxyethyl) phosphate	0.66	OECD 105 (EU A.6)	20
ethanediol	Soluble	Method not given	20
alkyl alcohol ethoxylate	Soluble	Method not given	20
zinc oxide	Insoluble		
ammonia	100 Soluble	Method not given	20

Substance data, partition coefficient n-octanol/water (log Kow): see subsection 12.3

## Method / remark

**Autoignition temperature:** Not determined**Decomposition temperature:** Not applicable.**Viscosity:** Not determined**Explosive properties:** Not explosive.**Oxidising properties:** Not oxidising.

Not oxidising, based on substance properties

## 9.2 Other information

**Surface tension (N/m):** Not determined**Corrosion to metals:** Not corrosive

OECD 115

Weight of evidence

Substance data, dissociation constant, if available:

## SECTION 10: Stability and reactivity

## 10.1 Reactivity

No reactivity hazards known under normal storage and use conditions.

## 10.2 Chemical stability

Stable under normal storage and use conditions.

## 10.3 Possibility of hazardous reactions

No hazardous reactions known under normal storage and use conditions.

## 10.4 Conditions to avoid

None known under normal storage and use conditions.

**10.5 Incompatible materials**

None known under normal use conditions.

**10.6 Hazardous decomposition products**

None known under normal storage and use conditions.

**SECTION 11: Toxicological information****11.1 Information on toxicological effects**

Mixture data:.

**Relevant calculated ATE(s):**

ATE - Oral (mg/kg): &gt;2000

Substance data, where relevant and available, are listed below:.

**Acute toxicity****Acute oral toxicity**

Ingredient(s)	Endpoint	Value (mg/kg)	Species	Method	Exposure time (h)
2-(2-ethoxyethoxy)ethanol	LD <sub>50</sub>	5540	Rat	Method not given	
tris(2-butoxyethyl) phosphate	LD <sub>50</sub>	> 2000	Rat	Method not given	
ethanediol	LD <sub>50</sub>	7712	Rat	Method not given	
alkyl alcohol ethoxylate	LD <sub>50</sub>	> 300-2000	Rat	OECD 423 (EU B.1 tris)	
zinc oxide	LD <sub>50</sub>	> 5000	Rat	Method not given	
ammonia	LD <sub>50</sub>	350	Rat	Method not given	

**Acute dermal toxicity**

Ingredient(s)	Endpoint	Value (mg/kg)	Species	Method	Exposure time (h)
2-(2-ethoxyethoxy)ethanol	LD <sub>50</sub>	5940	Rat	Method not given	
tris(2-butoxyethyl) phosphate	LD <sub>50</sub>	> 5000	Rat	Method not given	
ethanediol	LD <sub>50</sub>	> 2000	Rabbit	Method not given	
alkyl alcohol ethoxylate	LD <sub>50</sub>	> 2000	Rabbit	Method not given	
zinc oxide		No data available			
ammonia		No data available			

**Acute inhalative toxicity**

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
2-(2-ethoxyethoxy)ethanol	LC <sub>0</sub>	> 5.24 (mist)	Rat	OECD 403 (EU B.2)	8
tris(2-butoxyethyl) phosphate	LC <sub>0</sub>	> 6.4 (mist)	Rat	OECD 403 (EU B.2)	4
ethanediol	LC <sub>50</sub>	> 2.5 (mist) No mortality observed	Rat	Weight of evidence	6
alkyl alcohol ethoxylate		No data available			
zinc oxide		No data available			
ammonia	LC <sub>50</sub>	7.035	Rat	Method not given	0.5

**Irritation and corrosivity****Skin irritation and corrosivity**

Ingredient(s)	Result	Species	Method	Exposure time
2-(2-ethoxyethoxy)ethanol	No data available			
tris(2-butoxyethyl) phosphate	Not irritant	Rabbit	Method not given	
ethanediol	Not irritant	Rabbit	Method not given	
alkyl alcohol ethoxylate	Not irritant	Rabbit	OECD 404 (EU B.4)	
zinc oxide	No data available			
ammonia	Corrosive		Method not given	

**Eye irritation and corrosivity**

Ingredient(s)	Result	Species	Method	Exposure time
2-(2-ethoxyethoxy)ethanol	No data available			
tris(2-butoxyethyl) phosphate	Not corrosive or irritant	Rabbit	Method not given	
ethanediol	Not corrosive or irritant	Rabbit	Method not given	
alkyl alcohol ethoxylate	Severe damage	Rabbit	Method not given	
zinc oxide	No data available			
ammonia	Severe damage		Method not given	

**Respiratory tract irritation and corrosivity**

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Ingredient(s)	Result	Species	Method	Exposure time
2-(2-ethoxyethoxy)ethanol	No data available			
tris(2-butoxyethyl) phosphate	No data available			
ethanediol	No data available			
alkyl alcohol ethoxylate	No data available			
zinc oxide	No data available			
ammonia	Irritating to respiratory tract		Method not given	

**Sensitisation**

Sensitisation by skin contact

Ingredient(s)	Result	Species	Method	Exposure time (h)
2-(2-ethoxyethoxy)ethanol	Not sensitising		Method not given	
tris(2-butoxyethyl) phosphate	Not sensitising	Guinea pig	OECD 406 (EU B.6) / Buehler test	
ethanediol	Not sensitising		Method not given	
alkyl alcohol ethoxylate	Not sensitising	Guinea pig	Method not given	
zinc oxide	No data available			
ammonia	Not sensitising		Method not given	

Sensitisation by inhalation

Ingredient(s)	Result	Species	Method	Exposure time
2-(2-ethoxyethoxy)ethanol	No data available			
tris(2-butoxyethyl) phosphate	No data available			
ethanediol	No data available			
alkyl alcohol ethoxylate	No data available			
zinc oxide	No data available			
ammonia	No data available			

**CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**

Mutagenicity

Ingredient(s)	Result (in-vitro)	Method (in-vitro)	Result (in-vivo)	Method (in-vivo)
2-(2-ethoxyethoxy)ethanol	No data available		No data available	
tris(2-butoxyethyl) phosphate	No evidence for mutagenicity, negative test results	OECD 471 (EU B.12/13) OECD 476 (Chinese Hamster Ovary) OECD 476 (HGPRT)	No evidence for mutagenicity, negative test results	OECD 474 (EU B.12)
ethanediol	No evidence for mutagenicity, negative test results	Method not given	No data available	
alkyl alcohol ethoxylate	No evidence of genotoxicity, negative test results	Method not given	No evidence of genotoxicity, negative test results	Method not given
zinc oxide	No data available		No data available	
ammonia	No evidence for mutagenicity		No evidence for mutagenicity	

Carcinogenicity

Ingredient(s)	Effect
2-(2-ethoxyethoxy)ethanol	No data available
tris(2-butoxyethyl) phosphate	No data available
ethanediol	No evidence for carcinogenicity, negative test results
alkyl alcohol ethoxylate	No evidence for carcinogenicity, weight-of-evidence
zinc oxide	No data available
ammonia	No data available

Toxicity for reproduction

Ingredient(s)	Endpoint	Specific effect	Value (mg/kg bw/d)	Species	Method	Exposure time	Remarks and other effects reported
2-(2-ethoxyethoxy)ethanol			No data available				
tris(2-butoxyethyl) phosphate			No data available		Not known		No evidence for reproductive toxicity
ethanediol			No data available				No evidence for reproductive toxicity
alkyl alcohol ethoxylate	NOAEL	Teratogenic effects	> 50	Rat	Not known		No known significant effects or critical hazards
zinc oxide			No data available				
ammonia			No data available				No evidence for reproductive toxicity

**Repeated dose toxicity**

Sub-acute or sub-chronic oral toxicity

Ingredient(s)	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure time (days)	Specific effects and organs affected
2-(2-ethoxyethoxy)ethanol		No data available				
tris(2-butoxyethyl) phosphate	NOAEL	20	Rat	Method not	non-standar	

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				given	d	
ethanediol		No data available				
alkyl alcohol ethoxylate		No data available				
zinc oxide		No data available				
ammonia	NOAEL	68		Method not given		

## Sub-chronic dermal toxicity

Ingredient(s)	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure time (days)	Specific effects and organs affected
2-(2-ethoxyethoxy)ethanol		No data available				
tris(2-butoxyethyl) phosphate	NOAEL	1000	Rabbit	Method not given	21	
ethanediol		No data available				
alkyl alcohol ethoxylate		No data available				
zinc oxide		No data available				
ammonia		No data available				

## Sub-chronic inhalation toxicity

Ingredient(s)	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure time (days)	Specific effects and organs affected
2-(2-ethoxyethoxy)ethanol		No data available				
tris(2-butoxyethyl) phosphate		No data available				
ethanediol		No data available				
alkyl alcohol ethoxylate		No data available				
zinc oxide		No data available				
ammonia		No data available				

## Chronic toxicity

Ingredient(s)	Exposure route	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure time	Specific effects and organs affected	Remark
2-(2-ethoxyethoxy)ethanol			No data available					
tris(2-butoxyethyl) phosphate			No data available					
ethanediol			No data available					
alkyl alcohol ethoxylate	Oral	NOAEL	50	Rat	Method not given	24 month(s)	Effects on organ weights	
zinc oxide			No data available					
ammonia			No data available					

## STOT-single exposure

Ingredient(s)	Affected organ(s)
2-(2-ethoxyethoxy)ethanol	No data available
tris(2-butoxyethyl) phosphate	Not applicable
ethanediol	No data available
alkyl alcohol ethoxylate	Not applicable
zinc oxide	No data available
ammonia	No data available

## STOT-repeated exposure

Ingredient(s)	Affected organ(s)
2-(2-ethoxyethoxy)ethanol	No data available
tris(2-butoxyethyl) phosphate	Not applicable
ethanediol	No data available
alkyl alcohol ethoxylate	Not applicable
zinc oxide	No data available
ammonia	No data available

## Aspiration hazard

Substances with an aspiration hazard (H304), if any, are listed in section 3.

## Potential adverse health effects and symptoms

Effects and symptoms related to the product, if any, are listed in subsection 4.2.



## SECTION 12: Ecological information

### 12.1 Toxicity

No data is available on the mixture.

Substance data, where relevant and available, are listed below:

#### Aquatic short-term toxicity

Aquatic short-term toxicity - fish

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
2-(2-ethoxyethoxy)ethanol	LC <sub>50</sub>	> 100	<i>Pimephales promelas</i>	Method not given	96
tris(2-butoxyethyl) phosphate	LC <sub>50</sub>	24	<i>Oncorhynchus mykiss</i> Various species	Method not given	96
ethanediol	LC <sub>50</sub>	18500	<i>Oncorhynchus mykiss</i>	Method not given	96
alkyl alcohol ethoxylate	LC <sub>50</sub>	1 - 10	<i>Cyprinus carpio</i>	OECD 203 (EU C.1)	96
zinc oxide	LC <sub>50</sub>	1.1	<i>Oncorhynchus mykiss</i>	Method not given	96
ammonia	LC <sub>50</sub>	0.56 - 2.48	<i>Fish</i>	Method not given	96

Aquatic short-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
2-(2-ethoxyethoxy)ethanol	EC <sub>50</sub>	1982	<i>Daphnia magna</i> Straus	Method not given	48
tris(2-butoxyethyl) phosphate	EC <sub>50</sub>	53	<i>Daphnia magna</i> Straus	Method not given	48
ethanediol	EC <sub>50</sub>	> 100	<i>Daphnia magna</i> Straus	Method not given	48
alkyl alcohol ethoxylate	EC <sub>50</sub>	1 - 10	<i>Daphnia magna</i> Straus	OECD 202, static	48
zinc oxide		No data available			-
ammonia	EC <sub>50</sub>	1.1 - 22.8	<i>Daphnia magna</i> Straus	Method not given	-

Aquatic short-term toxicity - algae

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
2-(2-ethoxyethoxy)ethanol		No data available			-
tris(2-butoxyethyl) phosphate	EC <sub>50</sub>	61	<i>Pseudokirchneriella subspicatatata</i>	Method not given	48
ethanediol	EC <sub>50</sub>	6500 - 13000	<i>Pseudokirchneriella subcapitata</i>	Method not given	96
alkyl alcohol ethoxylate	EC <sub>50</sub>	1 - 10	<i>Desmodesmus subspicatus</i>	OECD 201, static	72
zinc oxide	EC <sub>50</sub>	0.17	<i>Desmodesmus subspicatus</i>	Method not given	72
ammonia		No data available			-

Aquatic short-term toxicity - marine species

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (days)
2-(2-ethoxyethoxy)ethanol		No data available			-
tris(2-butoxyethyl) phosphate		No data available			-
ethanediol		No data available			-
alkyl alcohol ethoxylate		No data available			-
zinc oxide		No data available			-
ammonia		No data available			-

Impact on sewage plants - toxicity to bacteria

Ingredient(s)	Endpoint	Value (mg/l)	Inoculum	Method	Exposure time
2-(2-ethoxyethoxy)ethanol	EC <sub>50</sub>	> 5000		Method not given	16 hour(s)
tris(2-butoxyethyl) phosphate	EC <sub>50</sub>	> 1000	<i>Activated sludge</i>	Method not given	3 hour(s)
ethanediol	EC <sub>50</sub>	10000	<i>Pseudomonas putida</i>	Method not given	16 hour(s)
alkyl alcohol ethoxylate	EC <sub>10</sub>	> 10000	<i>Activated</i>	DIN 38412 / Part 8	17 hour(s)

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			sludge		
zinc oxide		No data available			
ammonia		No data available			

**Aquatic long-term toxicity**

Aquatic long-term toxicity - fish

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
2-(2-ethoxyethoxy)ethanol		No data available				
tris(2-butoxyethyl) phosphate		No data available				
ethanediol	NOEC	> 100	<i>Not specified</i>	Method not given		
alkyl alcohol ethoxylate		No data available				
zinc oxide		No data available				
ammonia		No data available				

Aquatic long-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
2-(2-ethoxyethoxy)ethanol		No data available				
tris(2-butoxyethyl) phosphate		No data available				
ethanediol	NOEC	> 100		Method not given		
alkyl alcohol ethoxylate		No data available				
zinc oxide	NOEC	0.4	<i>Daphnia magna</i>	Method not given	48 hour(s)	
ammonia		No data available				

Aquatic toxicity to other aquatic benthic organisms, including sediment-dwelling organisms, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw sediment)	Species	Method	Exposure time (days)	Effects observed
2-(2-ethoxyethoxy)ethanol		No data available			-	
tris(2-butoxyethyl) phosphate		No data available			-	
ethanediol		No data available			-	
alkyl alcohol ethoxylate		No data available			-	
zinc oxide		No data available			-	
ammonia		No data available			-	

**Terrestrial toxicity**

Terrestrial toxicity - soil invertebrates, including earthworms, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
2-(2-ethoxyethoxy)ethanol		No data available			-	
tris(2-butoxyethyl) phosphate		No data available			-	
ethanediol		No data available			-	
alkyl alcohol ethoxylate	NOEC	220	<i>Eisenia fetida</i>		-	
zinc oxide		No data available			-	
ammonia		No data available			-	

Terrestrial toxicity - plants, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
2-(2-ethoxyethoxy)ethanol		No data available			-	
tris(2-butoxyethyl) phosphate		No data available			-	
ethanediol		No data available			-	
alkyl alcohol ethoxylate	NOEC	10	<i>Lepidium sativum</i>	OECD 208	-	

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zinc oxide		No data available			-	
ammonia		No data available			-	

Terrestrial toxicity - birds, if available:

Ingredient(s)	Endpoint	Value	Species	Method	Exposure time (days)	Effects observed
2-(2-ethoxyethoxy)ethanol		No data available			-	
tris(2-butoxyethyl) phosphate		No data available			-	
ethanediol		No data available			-	
alkyl alcohol ethoxylate		No data available			-	
zinc oxide		No data available			-	
ammonia		No data available			-	

Terrestrial toxicity - beneficial insects, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
2-(2-ethoxyethoxy)ethanol		No data available			-	
tris(2-butoxyethyl) phosphate		No data available			-	
ethanediol		No data available			-	
alkyl alcohol ethoxylate		No data available			-	
zinc oxide		No data available			-	
ammonia		No data available			-	

Terrestrial toxicity - soil bacteria, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
2-(2-ethoxyethoxy)ethanol		No data available			-	
tris(2-butoxyethyl) phosphate		No data available			-	
ethanediol		No data available			-	
alkyl alcohol ethoxylate		No data available			-	
zinc oxide		No data available			-	
ammonia		No data available			-	

## 12.2 Persistence and degradability

## Abiotic degradation

Abiotic degradation - photodegradation in air, if available:

Ingredient(s)	Half-life time	Method	Evaluation	Remark
ethanediol	No data available	Method not given	Rapidly photodegradable	

Abiotic degradation - hydrolysis, if available:

Abiotic degradation - other processes, if available:

## Biodegradation

Ready biodegradability - aerobic conditions

Ingredient(s)	Inoculum	Analytical method	DT <sub>50</sub>	Method	Evaluation
2-(2-ethoxyethoxy)ethanol			90 % in 28 day(s)	OECD 301E	Readily biodegradable
tris(2-butoxyethyl) phosphate			87 % in 28 day(s)	OECD 301B	Readily biodegradable
ethanediol			56 % in 28 day(s)	OECD 301A	Readily biodegradable
alkyl alcohol ethoxylate	Activated sludge, aerobe	CO <sub>2</sub> production	> 60 % in 28 day(s)	OECD 301B	Readily biodegradable
zinc oxide					Not applicable (inorganic substance)
ammonia					Not applicable (inorganic substance)

Ready biodegradability - anaerobic and marine conditions, if available:

Degradation in relevant environmental compartments, if available:

## 12.3 Bioaccumulative potential

Partition coefficient n-octanol/water (log Kow)

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Ingredient(s)	Value	Method	Evaluation	Remark
2-(2-ethoxyethoxy)ethanol	-0.8	Method not given	No bioaccumulation expected	
tris(2-butoxyethyl) phosphate	3.75	Method not given	No bioaccumulation expected	
ethanediol	-1.34	Method not given	No bioaccumulation expected	
alkyl alcohol ethoxylate	-		No bioaccumulation expected	
zinc oxide	No data available			
ammonia	0.23	Method not given	No bioaccumulation expected	

## Bioconcentration factor (BCF)

Ingredient(s)	Value	Species	Method	Evaluation	Remark
2-(2-ethoxyethoxy)ethanol	No data available				
tris(2-butoxyethyl) phosphate	5.8		Method not given	No bioaccumulation expected	
ethanediol	No data available				
alkyl alcohol ethoxylate	-			No bioaccumulation expected	
zinc oxide	No data available				
ammonia	No data available				

## 12.4 Mobility in soil

Adsorption/Desorption to soil or sediment

Ingredient(s)	Adsorption coefficient Log K <sub>oc</sub>	Desorption coefficient Log K <sub>oc</sub> (des)	Method	Soil/sediment type	Evaluation
2-(2-ethoxyethoxy)ethanol	No data available				High potential for mobility in soil
tris(2-butoxyethyl) phosphate	2.5		Method not given		Mobile in soil
ethanediol	No data available				Potential for mobility in soil, soluble in water
alkyl alcohol ethoxylate	No data available				Immobile in soil or sediment
zinc oxide	No data available				
ammonia	No data available				Low mobility in soil

## 12.5 Results of PBT and vPvB assessment

Substances that fulfill the criteria for PBT/vPvB, if any, are listed in section 3.

## 12.6 Other adverse effects

No other adverse effects known.

## SECTION 13: Disposal considerations

## 13.1 Waste treatment methods

Waste from residues / unused products:

The concentrated contents or contaminated packaging should be disposed of by a certified handler or according to the site permit. Release of waste to sewers is discouraged. The cleaned packaging material is suitable for energy recovery or recycling in line with local legislation.

20 01 29\* - detergents containing dangerous substances.

European Waste Catalogue:

Empty packaging

Recommendation:

Dispose of observing national or local regulations.

Suitable cleaning agents:

Water, if necessary with cleaning agent.

## SECTION 14: Transport information

Land transport (ADR/RID), Sea transport (IMDG), Air transport (ICAO-TI / IATA-DGR)

14.1 UN number: Non-dangerous goods

14.2 UN proper shipping name: Non-dangerous goods

14.3 Transport hazard class(es): Non-dangerous goods

14.4 Packing group: Non-dangerous goods

14.5 Environmental hazards: Non-dangerous goods

14.6 Special precautions for user: Non-dangerous goods

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code: Non-dangerous goods

## SECTION 15: Regulatory information

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

## EU regulations:

- Regulation (EC) No. 1907/2006 - REACH
- Regulation (EC) No 1272/2008 - CLP
- Regulation (EC) No. 648/2004 - Detergents regulation

Authorisations or restrictions (Regulation (EC) No 1907/2006, Title VII respectively Title VIII): Not applicable.

UFI: STH6-80VQ-100T-4QV5

**Ingredients according to EC Detergents Regulation 648/2004**

non-ionic surfactants

&lt; 5 %

perfumes , Phenoxyethanol, Benzisothiazolinone, Methylisothiazolinone

The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No. 648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

**15.2 Chemical safety assessment**

A chemical safety assessment has not been carried out on the mixture

**SECTION 16: Other information**

*The information in this document is based on our best present knowledge. However, it does not constitute a guarantee for any specific product features and does not establish a legally binding contract*

**SDS code:** MSDS7237**Version:** 06.0**Revision:** 2020-03-08**Reason for revision:**

This data sheet contains changes from the previous version in section(s): 2, 3, 8, 9, 11, 12, 16

**Classification procedure**

The classification of the mixture is in general based on calculation methods using substance data, as required by Regulation (EC) No 1272/2008. If for certain classifications data on the mixture is available or for example bridging principles or weight of evidence can be used for classification, this will be indicated in the relevant sections of the Safety Data Sheet. See section 9 for physical chemical properties, section 11 for toxicological information and section 12 for ecological information.

**Full text of the H and EUH phrases mentioned in section 3:**

- H226 - Flammable liquid and vapour.
- H228 - Flammable solid.
- H290 - May be corrosive to metals.
- H301 - Toxic if swallowed.
- H302 - Harmful if swallowed.
- H304 - May be fatal if swallowed and enters airways.
- H311 - Toxic in contact with skin.
- H314 - Causes severe skin burns and eye damage.
- H315 - Causes skin irritation.
- H317 - May cause an allergic skin reaction.
- H318 - Causes serious eye damage.
- H319 - Causes serious eye irritation.
- H320 - Causes eye irritation.
- H330 - Fatal if inhaled.
- H332 - Harmful if inhaled.
- H335 - May cause respiratory irritation.
- H341 - Suspected of causing genetic defects.
- H351 - Suspected of causing cancer.
- H371 - May cause damage to organs.
- H373 - May cause damage to organs through prolonged or repeated exposure.
- H400 - Very toxic to aquatic life.
- H410 - Very toxic to aquatic life with long lasting effects.
- H411 - Toxic to aquatic life with long lasting effects.
- H412 - Harmful to aquatic life with long lasting effects.
- EUH031 - Contact with acids liberates toxic gas.

**Abbreviations and acronyms:**

- AISE - The international Association for Soaps, Detergents and Maintenance Products
- DNEL - Derived No Effect Limit
- EUH - CLP Specific hazard statement
- PBT - Persistent, Bioaccumulative and Toxic
- PNEC - Predicted No Effect Concentration
- REACH number - REACH registration number, without supplier specific part
- vPvB - very Persistent and very Bioaccumulative
- ATE - Acute Toxicity Estimate
- LD50 - Lethal Dose, 50% / Median Lethal dose
- LC50 - Lethal Concentration, 50% / Median Lethal Concentration
- EC50 - effective concentration, 50%
- NOEL - No observed effect level
- NOAEL - No observed adverse effect level
- OECD - Organization for Economic Cooperation and Development

**End of Safety Data Sheet**