



According to Regulation (EC) No 1907/2006

## Suma Revoflow Perfect Pur-Eco A17

**Revision:** 2018-12-09 **Version:** 04.0

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

#### 1.1 Product identifier

Trade name: Suma Revoflow Perfect Pur-Eco A17

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

Identified uses:

For professional use only.

AISE-P204 - Rinse aid. Automatic process

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

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

Diversey Europe Operations BV, Maarssenbroeksedijk 2, 3542DN Utrecht, The Netherlands

#### **Contact details**

Diversey Ltd

Weston Favell Centre, Northampton NN3 8PD, United Kingdom

Tel: 01604 405311, Fax: 01604 406809

Regulatory Email: customerservice.uk@diversey.com

# 1.4 Emergency telephone number

For medical or environmental emergency only:

call 0800 052 0185

### **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

Acute Tox. 4 (H302) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319)

#### 2.2 Label elements



Signal word: Warning.

Contains glutaral (Glutaral), alkyl alcohol alkoxylate (PPG-10-Buteth-9)

## Hazard statements:

H315 + H319 - Causes skin and serious eye irritation.

H302 - Harmful if swallowed.

EUH208 - May produce an allergic reaction.

### Further indications on the label:

Contains: preservative.

#### 2.3 Other hazards

No other hazards known.

# SECTION 3: Composition/information on ingredients

#### 3.2 Mixtures

Ingredient(s)	EC number	CAS number	REACH number	Classification	Notes	Weight percent
alkyl alcohol alkoxylate	[4]	111905-53-4	[4]	Acute Tox. 4 (H302) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319)		10-20
				Aquatic Chronic 3		

				(H412)	
alkyl alcohol alkoxylate	[4]	9038-95-3	[4]	Acute Tox. 4 (H302)	10-20
sodium cumenesulphonate	239-854-6	15763-76-5	01-2119489411-37	Eye Irrit. 2 (H319)	1-3
glutaral	203-856-5	111-30-8	01-2119455549-26	Acute Tox. 2 (H330) Acute Tox. 3 (H301) Skin Corr. 1B (H314) EUH071 STOT SE 3 (H335) Skin Sens. 1A (H317) Resp. Sens. 1A (H334) Aquatic Acute 1 (H400) Aquatic Chronic 2 (H411) Met. Corr. 1 (H290)	0.01-0.1

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

- [1] Exempted: ionic mixture. See Regulation (EC) No 1907/2006, Annex V, paragraph 3 and 4. This salt is potentially present, based on calculation, and included for classification and labelling purposes only. Each starting material of the ionic mixture is registered, as required.
- [2] Exempted: included in Annex IV of Regulation (EC) No 1907/2006.
- [3] Exempted: Annex V of Regulation (EC) No 1907/2006. [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

Eve contact:

**General Information:** Symptoms of intoxication may even occur after several hours. It is recommended to continue

medical observation for at least 48 hours after the incident.

Get medical attention or advice if you feel unwell. Inhalation:

Wash skin with plenty of lukewarm, gently flowing water. Take off immediately all contaminated Skin contact:

clothing and wash it before re-use. If skin irritation or rash occurs: Get medical advice or attention. 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 eye irritation persists: Get medical

advice or attention.

Ingestion: Rinse mouth. Immediately drink 1 glass of water. Never give anything by mouth to an unconscious

person. Call a POISON CENTRE, doctor or physician.

Self-protection of first aider: Consider personal protective equipment as indicated in subsection 8.2.

4.2 Most important symptoms and effects, both acute and delayed

Inhalation: No known effects or symptoms in normal use.

Skin contact: Causes irritation. Eye contact: Causes severe irritation.

Ingestion: 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

#### 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. Dilute with plenty of water.

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

Absorb with liquid-binding material (sand, diatomite, universal binders, sawdust).

#### 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 adviced by Diversey. Wash hands before breaks and at the end of workday. Wash face, hands and any exposed skin thoroughly after handling. Take off immediately all contaminated clothing. Use personal protective equipment as required. 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)
glutaral	0.05 ppm	0.05 ppm
	0.2 mg/m <sup>3</sup>	0.2 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
alkyl alcohol alkoxylate	No data available	No data available	No data available	No data available
alkyl alcohol alkoxylate	-	-	-	-
sodium cumenesulphonate	-	-	-	3.8
glutaral	-	-	-	-

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)
alkyl alcohol alkoxylate	No data available	No data available	No data available	No data available
alkyl alcohol alkoxylate	-	-	-	-
sodium cumenesulphonate	-	-	-	7.6
glutaral	No data available	-	No data available	-

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)
alkyl alcohol alkoxylate	No data available	No data available	No data available	No data available
alkyl alcohol alkoxylate	-	-	-	-
sodium cumenesulphonate	-	-	-	3.8
glutaral	No data available	-	No data available	-

DNEL inhalatory exposure - Worker (mg/m³)

Ingredient(s)	Short term - Local effects	Short term - Systemic effects	Long term - Local effects	Long term - Systemic effects
alkyl alcohol alkoxylate	No data available	No data available	No data available	No data available
alkyl alcohol alkoxylate	-	-	-	-
sodium cumenesulphonate	-	-	-	3.8
glutaral	-	-	0.0106	-

DNEL inhalatory exposure - Consumer (mg/m³)

Ingredient(s)	Short term - Local	Short term - Systemic	Long term - Local	Long term - Systemic
	effects	effects	effects	effects

alkyl alcohol alkoxylate	No data available	No data available	No data available	No data available
alkyl alcohol alkoxylate	-	-	-	-
sodium cumenesulphonate	-	-	-	13.2
glutaral	-	-	-	-

#### **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)
alkyl alcohol alkoxylate	No data available	No data available	No data available	No data available
alkyl alcohol alkoxylate	-	-	-	-
sodium cumenesulphonate	0.23	-	2.3	100
glutaral	0.0025	0.00025	0.006	0.8

Environmental exposure - PNEC, continued

Ingredient(s)	Sediment, freshwater (mg/kg)	Sediment, marine (mg/kg)	Soil (mg/kg)	Air (mg/m³)
alkyl alcohol alkoxylate	No data available	No data available	No data available	No data available
alkyl alcohol alkoxylate	-	-	-	-
sodium cumenesulphonate	-	-	-	-
glutaral	0.091	0.0009	0.03	-

#### 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 <u>undiluted</u> product:

Covering activities such as filling and transfer of product to application equipment, flasks or buckets

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: Chemical-resistant protective gloves (EN 374). Verify instructions regarding permeability and

breakthrough time, as provided by the gloves supplier. Consider specific local use conditions, such

as risk of splashes, cuts, contact time and temperature.

Suggested gloves for prolonged contact: Material: butyl rubber Penetration time:  $\geq$  480 min Material

thickness: ≥ 0.7 mm

Suggested gloves for protection against splashes: Material: nitrile rubber Penetration time: ≥ 30 min

Material thickness: ≥ 0.4 mm

In consultation with the supplier of protective gloves a different type providing similar protection may

be chosen.

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.

Recommended safety measures for handling the <u>diluted</u> product:

Recommended maximum concentration (%): 0.03

Appropriate engineering controls: No special requirements under normal use conditions. Appropriate organisational controls: No special requirements under normal use conditions.

Personal protective equipment

**Environmental exposure controls:** 

Eye / face protection:
Hand protection:
Body protection:
Respiratory protection:

No special requirements under normal use conditions.

# 9.1 Information on basic physical and chemical properties

SECTION 9: Physical and chemical properties

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

Method / remark

Physical State: Liquid

No special requirements under normal use conditions.

Colour: Clear, Blue Odour: Product specific Odour threshold: Not applicable

**pH**: ≈ 7 (neat)

Melting point/freezing point (°C): Not determined Not relevant to classification of this product

Initial boiling point and boiling range (°C): Not determined See substance data

Substance data, boiling point

Ingredient(s)	Value (°C)	Method	Atmospheric pressure (hPa)
alkyl alcohol alkoxylate	No data available		
alkyl alcohol alkoxylate	No data available		
sodium cumenesulphonate	No data available		
glutaral	101.5	Method not given	987.1

Method / remark

ISO 4316

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 determined Flammability (solid, gas): Not applicable to liquids Upper/lower flammability limit (%): Not determined

Substance data, flammability or explosive limits, if available:

Not relevant to classification of this product

Method / remark
See substance data

Vapour pressure: Not determined

Substance data, vapour pressure

Ingredient(s)	Value (Pa)	Method	Temperature (°C)
alkyl alcohol alkoxylate	No data available		
alkyl alcohol alkoxylate	< 10	Method not given	20
sodium cumenesulphonate	No data available	data available	
glutaral	2000	Method not given	20.1

Method / remark

Not relevant to classification of this product

OECD 109 (EU A.3)

Vapour density: Not determined Relative density: ≈ 1.02 (20 °C) Solubility in / Miscibility with Water: Fully miscible

Substance data, solubility in water

Ingredient(s)	Value (g/l)	Method	Temperature (°C)
alkyl alcohol alkoxylate	No data available		
alkyl alcohol alkoxylate	No data available		
sodium cumenesulphonate	493 Soluble	Method not given	20
glutaral	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.

9.2 Other information

Surface tension (N/m): Not determined

Corrosion to metals: Not corrosive

Substance data, dissociation constant, if available:

Substance data, dissociation constant, if available:			
Ingredient(s)	Value	Method	Temperature (°C)
alkyl alcohol alkoxylate	> 300		

# 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): 1700

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)
alkyl alcohol alkoxylate	LD 50	≥ 1000	Rat	Method not given	
alkyl alcohol alkoxylate	LD 50	200-2000	Rat	Method not given	
sodium cumenesulphonate	LD 50	> 7000	Rat	Method not given	
glutaral	LD 50	77	Rat	OECD 401 (EU B.1)	

Acute dermal toxicity

Ingredient(s)	Endpoint	Value (mg/kg)	Species	Method	Exposure time (h)
alkyl alcohol alkoxylate		No data available			
alkyl alcohol alkoxylate		No data available			
sodium cumenesulphonate	LD 50	> 2000	Rabbit	Method not given	
glutaral	LD 50	> 1000	Rabbit	OECD 402 (EU B.3)	

Acute inhalative toxicity

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
alkyl alcohol alkoxylate		No data available			
alkyl alcohol alkoxylate		No data available			
sodium cumenesulphonate	LC 50	> 5 (mist) No mortality observed	Rat	Read across	3.87
glutaral	LC 50	028-0.39 (mist)	Rat	OECD 403 (EU B.2)	4

#### Irritation and corrosivity

Skin irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
alkyl alcohol alkoxylate	Irritant	Rabbit	OECD 404 (EU B.4)	
alkyl alcohol alkoxylate	Not irritant	Rabbit	OECD 404 (EU B.4) Read across	
sodium cumenesulphonate	Not irritant	Rabbit	OECD 404 (EU B.4)	
glutaral	Corrosive	Rabbit	OECD 404 (EU B.4)	

Eye irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
alkyl alcohol alkoxylate	Irritant	Rabbit	OECD 405 (EU B.5)	
alkyl alcohol alkoxylate	Not corrosive or irritant	Rabbit	OECD 405 (EU B.5) Read across	
sodium cumenesulphonate	Irritant	Rabbit	OECD 405 (EU B.5)	

glutaral	Severe damage	Rabbit	OECD 405 (EU B.5)	
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Respiratory tract irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
alkyl alcohol alkoxylate	No data available			
alkyl alcohol alkoxylate	No data available			
sodium cumenesulphonate	No data available			
glutaral	No data available			

**Sensitisation** Sensitisation by skin contact

Scholisation by skin contact				
Ingredient(s)	Result	Species	Method	Exposure time (h)
alkyl alcohol alkoxylate	No data available			
alkyl alcohol alkoxylate	No data available			
sodium cumenesulphonate	Not sensitising	Guinea pig	OECD 406 (EU B.6) / GPMT	
glutaral	Sensitising	Guinea pig	Method not given	

Sensitisation by inhalation

Ingredient(s)	Result	Species	Method	Exposure time
alkyl alcohol alkoxylate	No data available			
alkyl alcohol alkoxylate	No data available			
sodium cumenesulphonate	No data available			
glutaral	No data available			

# CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction) Mutagenicity

Matagornoity					
	Ingredient(s)	Result (in-vitro)	Method	Result (in-vivo)	Method
			(in-vitro)		(in-vivo)
а	lkyl alcohol alkoxylate	No data available		No data available	
а	lkyl alcohol alkoxylate	No data available		No data available	
SOC	lium cumenesulphonate	No evidence for mutagenicity, negative	Method not	No evidence for mutagenicity, negative	OECD 474 (EU
	-	test results	given	test results	B.12)
	glutaral	Mutagenic	Method not	No evidence for mutagenicity, negative	Method not
			given	test results	given

Carcinogenicity

Ingredient(s)	Effect
alkyl alcohol alkoxylate	No data available
alkyl alcohol alkoxylate	No data available
sodium cumenesulphonate	No evidence for carcinogenicity, negative test results
glutaral	No evidence for carcinogenicity, negative test results

Toxicity for reproduction

Ingredient(s)	Endpoint	Specific effect	Value (mg/kg bw/d)	Species	Method	Exposure time	Remarks and other effects reported
alkyl alcohol alkoxylate			No data available				
alkyl alcohol alkoxylate			No data available				
sodium cumenesulphonate	NOAEL	Teratogenic effects	> 936	Rat	Non guideline test		No known significant effects or critical hazards
glutaral			No data available				No evidence for developmental toxicity 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
alkyl alcohol alkoxylate		No data available				
alkyl alcohol alkoxylate		No data available				
sodium cumenesulphonate	NOAEL	763 - 3534	Rat	OECD 408 (EU B.26)		No effects observed
glutaral		No data available				

Sub-chronic dermal toxicity

Ingredient(s)	Endpoint	Value	Species	Method	Exposure	Specific effects and organs
		(mg/kg bw/d)			time (days)	affected
alkyl alcohol alkoxylate		No data				
		available				
alkyl alcohol alkoxylate		No data				
		available				

sodium cumenesulphonate	No data available		
glutaral	No data		
	available		

Sub-chronic inhalation toxicity

Ingredient(s)	Endpoint	Value	Species	Method	Exposure	Specific effects and organs
		(mg/kg bw/d)			time (days)	affected
alkyl alcohol alkoxylate		No data				
		available				
alkyl alcohol alkoxylate		No data				
		available				
sodium cumenesulphonate		No data				
		available				
glutaral		No data				
		available				

Chronic toxicity

Chronic toxicity								
Ingredient(s)	Exposure	Endpoint	Value	Species	Method	Exposure	Specific effects and	Remark
	route		(mg/kg bw/d)			time	organs affected	
alkyl alcohol alkoxylate			No data					
,			available					
alkyl alcohol alkoxylate			No data					
,			available					
sodium			No data					
cumenesulphonate			available					
glutaral			No data					
_			available					

STOT-single exposure

Ingredient(s)	Affected organ(s)
alkyl alcohol alkoxylate	No data available
alkyl alcohol alkoxylate	No data available
sodium cumenesulphonate	Not applicable
glutaral	Respiratory tract

STOT-repeated exposure

C. C. Topodiou expecuio	
Ingredient(s)	Affected organ(s)
alkyl alcohol alkoxylate	No data available
alkyl alcohol alkoxylate	No data available
sodium cumenesulphonate	Not applicable
glutaral	Respiratory tract

# **Aspiration hazard**

Substances with an aspiration hazard (H304), if any, are listed in section 3. If relevant, see section 9 for dynamic viscosity and relative density of the product.

**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)
alkyl alcohol alkoxylate	LC 50	1- 10	Leuciscus idus	Method not given	48
alkyl alcohol alkoxylate	LC 50	> 100	Brachydanio rerio	OECD 203 (EU C.1)	96
sodium cumenesulphonate	LC 50	> 1000	Fish	EPA-OPPTS 850.1075	96
glutaral	LC 50	0.8	Oncorhynchus mykiss	OECD 203, static	96

Aquatic short-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
alkyl alcohol alkoxylate	EC 50	1 - 10	Not specified	Method not given	48
alkyl alcohol alkoxylate	EC 50	> 100	Daphnia magna Straus	Method not given	48
sodium cumenesulphonate	EC 50	> 100	Daphnia magna Straus	OECD 202 (EU C.2)	48

glutaral	LC 50	0.345	Daphnia	Method not given	48
			magna Straus		

Aquatic short-term toxicity - algae

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
alkyl alcohol alkoxylate		No data available			-
alkyl alcohol alkoxylate	EC 50	> 100	Not specified	Method not given	72
sodium cumenesulphonate	EC 50	> 230	Not specified	EPA OPPTS 850.5400	96
glutaral	EC 50	0.6	Desmodesmus subspicatus	OECD 201, static	72

Aquatic short-term toxicity - marine species

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (days)
alkyl alcohol alkoxylate		No data available			-
alkyl alcohol alkoxylate		No data available			-
sodium cumenesulphonate		No data available			-
glutaral		No data available			-

Impact on sewage plants - toxicity to bacteria

Ingredient(s)	Endpoint	Value (mg/l)	Inoculum	Method	Exposure time
alkyl alcohol alkoxylate	EC 10	> 1000	Activated sludge	DEV-L2	
alkyl alcohol alkoxylate		No data available			
sodium cumenesulphonate	Er C 50	> 1000	Bacteria	OECD 209	3 hour(s)
glutaral	EC 20	15	Activated sludge	OECD 209	30 minute(s)

Aquatic long-term toxicity

		Species	Method	Exposure	Effects observed
	(mg/l)			time	
	No data				
	available				
	No data				
	available				
	No data				
	available				
NOEC	1.6	Oncorhynchus	Method not	97 day(s)	
	NOEC	No data available No data available No data available	No data available No data available No data available	No data available No data available No data available No data available NOEC 1.6 Oncorhynchus Method not	No data available NOEC 1.6 Oncorhynchus Method not 97 day(s)

Aquatic long-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
alkyl alcohol alkoxylate		No data				
		available				
alkyl alcohol alkoxylate		No data				
		available				
sodium cumenesulphonate		No data				
		available				
glutaral	NOEC	5.0	Daphnia magna	OECD 211, semi-static	21 day(s)	

Ingredient(s)	Endpoint	Value	Species	Method	Exposure	Effects observed
		(mg/kg dw sediment)			time (days)	
alkyl alcohol alkoxylate		No data available			-	
alkyl alcohol alkoxylate		No data available			-	
sodium cumenesulphonate		No data available			-	
glutaral		No data available			-	

# Terrestrial toxicity

refrestrial toxicity - soil invertebrates, including earthwork	ns, it avallabl	e:				
Ingredient(s)	Endpoint	Value	Species	Method	Exposure	Effects observed
,	·	(mg/kg dw soil)			time (days)	
alkyl alcohol alkoxylate		No data			-	

	available		
alkyl alcohol alkoxylate	No data	-	
	available		
sodium cumenesulphonate	No data	-	
	available		
glutaral	No data	-	
	available		

Terrestrial toxicity - plants, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
alkyl alcohol alkoxylate		No data available			-	
alkyl alcohol alkoxylate		No data available			-	
sodium cumenesulphonate		No data available			-	
glutaral		No data available			-	

Terrestrial toxicity - birds. if available:

Ingredient(s)	Endpoint	Value	Species	Method	Exposure time (days)	Effects observed
alkyl alcohol alkoxylate		No data			-	
		available				
alkyl alcohol alkoxylate		No data			-	
		available				
sodium cumenesulphonate		No data			-	
		available				
glutaral		No data			-	
		available				

Terrestrial toxicity - beneficial insects, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
alkyl alcohol alkoxylate		No data available			-	
alkyl alcohol alkoxylate		No data available			=	
sodium cumenesulphonate		No data available			-	
glutaral		No data available			-	

Terrestrial toxicity - soil bacteria, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
alkyl alcohol alkoxylate		No data available			-	
alkyl alcohol alkoxylate		No data available			-	
sodium cumenesulphonate		No data available			-	
glutaral		No data available			-	

#### 12.2 Persistence and degradability Abiotic degradation

Abiotic degradation - photodegradation in air, if available:

Abiotic degradation - hydrolysis, if available:

Abiotic degradation - other processes, if available:

Biodegradation

Ingredient(s)	Inoculum	Analytical method	DT 50	Method	Evaluation
alkyl alcohol alkoxylate			> 60 % in 28 day(s)	OECD 301F	Readily biodegradable
alkyl alcohol alkoxylate	Activated sludge, aerobe	BOD removal		OECD 301F	Readily biodegradable
sodium cumenesulphonate		CO <sub>2</sub> production	103 - 109% in 28 day(s)	OECD 301B	Readily biodegradable
glutaral	Activated sludge, aerobe	DOC reduction	90 - 100 % in 28 day(s)	OECD 301A	Readily biodegradable

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)

Ingredient(s)	Value	Method	Evaluation	Remark
alkyl alcohol alkoxylate	No data available			
alkyl alcohol alkoxylate	-		No bioaccumulation expected	
sodium cumenesulphonate	-1.1	Method not given	No bioaccumulation expected	
glutaral	-0.36	(EC) 440/2008, A.8	No bioaccumulation expected	

Bioconcentration factor (BCF)

Ingredient(s)	Value	Species	Method	Evaluation	Remark
alkyl alcohol alkoxylate	No data available				
alkyl alcohol alkoxylate	No data available				
sodium cumenesulphonate	No data available				
glutaral	No data available				

# 12.4 Mobility in soil

Adsorption/Desorption to soil or sediment

Ingredient(s)	Adsorption coefficient Log Koc	Desorption coefficient Log Koc(des)	Method	Soil/sediment type	Evaluation
alkyl alcohol alkoxylate	No data available				
alkyl alcohol alkoxylate	No data available				
sodium cumenesulphonate	No data available				
glutaral	2.51		Method not given		Potential for adsorption to 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.

**European Waste Catalogue:** 20 01 29\* - detergents containing dangerous substances.

**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: HYN0-80YW-A00N-3PNH

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

non-ionic surfactants >= 30 %

Glutaral

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: MS1000346 Version: 04.0 Revision: 2018-12-09

#### Reason for revision:

This data sheet contains changes from the previous version in section(s):, 2, 3, 15, 16

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:

- · H290 May be corrosive to metals.
- H301 Toxic if swallowed.
- H302 Harmful if swallowed.
- H314 Causes severe skin burns and eye damage.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- · H330 Fatal if inhaled.
- H331 Toxic if inhaled.
- H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- H335 May cause respiratory irritation.
- H400 Very toxic to aquatic life.
  H411 Toxic to aquatic life with long lasting effects.
- H412 Harmful to aquatic life with long lasting effects.
- EUH071 Corrosive to the respiratory tract.

## 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**