



**Revision:** 2020-02-19 **Version:** 05.0

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

#### 1.1 Product identifier

Trade name: Bactosol Rinse Aid

# 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

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)

# 2.2 Label elements



Signal word: Warning.

#### Hazard statements:

H319 - Causes serious eye irritation.

#### 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
alkyl alcohol alkoxylate	[4]	111905-53-4	[4]	Acute Tox. 4 (H302) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Aquatic Chronic 3 (H412)		3-10
citric acid	201-069-1	77-92-9	01-2119457026-42	Eye Irrit. 2 (H319)		3-10
sodium cumenesulphonate	239-854-6	-	01-2119489411-37	Eye Irrit. 2 (H319)		1-3
alkyl alcohol alkoxylate	[4]	120313-48-6	[4]	Aquatic Acute 1 (H400) Aquatic Chronic 3 (H412)		1-3

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.

[11] Substance of Very High Concern (SVHC)

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

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

Skin contact: Wash skin with plenty of lukewarm, gently flowing water. If skin irritation occurs: Get medical advice

or attention.

Eye contact: 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.

Ingestion: 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.

**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:No known effects or symptoms in normal use.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 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. Dilute with plenty of water.

# 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 adviced 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:

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
citric acid	-	-	-	-
sodium cumenesulphonate	No data available	No data available	No data available	3.8
alkyl alcohol alkoxylate	-	-	No data available	-

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
citric acid	No data available	-	No data available	-
sodium cumenesulphonate	No data available	No data available	No data available	7.6
alkyl alcohol alkoxylate	No data available	No data available	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
citric acid	No data available	-	No data available	-
sodium cumenesulphonate	No data available	No data available	No data available	3.8
alkyl alcohol alkoxylate	No data available	No data available	No data available	No data available

DNEL inhalatory exposure - Worker (mg/m³)

Ingredient(s)	Short term - Local Short term - Systemic Long term - Local Long		Long term - Systemic	
	effects	effects	effects	effects
alkyl alcohol alkoxylate	No data available	No data available	No data available	No data available
citric acid	-	-	-	-
sodium cumenesulphonate	No data available	No data available	No data available	53.6
alkyl alcohol alkoxylate	No data available	No data available	No data available	No data available

DNEL inhalatory exposure - Consumer (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
citric acid	-	-	-	-
sodium cumenesulphonate	No data available	No data available	No data available	13.2
alkyl alcohol alkoxylate	No data available	No data available	No data available	No data available

#### **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
citric acid	0.44	0.044	-	> 1000
sodium cumenesulphonate	0.23	0.023	2.3	100
alkyl alcohol alkoxylate	No data available	No data available	No data available	No data available

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
citric acid	34.6	3.46	33.1	-
sodium cumenesulphonate	0.862	0.086	0.037	No data available
alkyl alcohol alkoxylate	No data available	No data available	No data available	No data available

# 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:

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

Safety glasses are not normally required. However, their use is recommended in those cases Eye / face protection:

where splashes may occur when handling the product (EN 166).

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

Recommended maximum concentration (%): 0.05

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

Personal protective equipment

Eye / face protection: No special requirements under normal use conditions. 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.

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

# 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

Physical State: Liquid Colour: Clear, Red Odour: Product specific

Odour threshold: Not applicable

ISO 4316 **pH** < 2 (neat) **Dilution pH:** ≈ 4 (0.05 %) ISO 4316

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		
citric acid	No data available		
sodium cumenesulphonate	> 100	Method not given	
alkyl alcohol alkoxylate	> 250	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)

closed cup

Evaporation rate: Not relevant for classification of this product. Flammability (solid, gas): Not applicable to liquids

Not relevant to classification of this product

Upper/lower flammability limit (%): Not determined

Substance data, flammability or explosive limits, if available:

Method / remark See substance data

Substance data, vapour pressure

Vapour pressure: Not determined

Ingredient(s)	Value (Pa)	Method	Temperature (°C)
alkyl alcohol alkoxylate	No data available		

citric acid	No data available		
sodium cumenesulphonate	No data available		
alkyl alcohol alkoxylate	< 10	Method not given	20

Method / remark

Vapour density:Not determinedNot relevant to classification of this productRelative density:≈ 1.04 (20 °C)OECD 109 (EU A.3)

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		
citric acid	1630	Method not given	
sodium cumenesulphonate	Soluble		
alkyl alcohol alkoxylate	Insoluble	Method not given	

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

Method / remark

Not relevant to classification of this product

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 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

Reacts with alkali. Keep away from products containing chlorine-based bleaching agents or sulphites.

# 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): >2000 Skin irritation and corrosivity

Result: Not corrosive to skin Eye irritation and corrosivity Method: Weight of evidence Method: Weight of evidence

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

# Acute toxicity

Acute oral toxicity Endpoint Value **Species** Method Ingredient(s) Exposure time (h) (mg/kg) I D 50 Rat alkyl alcohol alkoxylate ≥ 1000 Method not given 3000 citric acid LD 50 Rat Method not given

sodium cumenesulphonate	LD 50	> 7000	Rat	Method not given	
alkyl alcohol alkoxylate	LD 50	> 2000	Rat	Weight of evidence	

Acute d	ermal	toxicity
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Ingredient(s)	Endpoint	Value (mg/kg)	Species	Method	Exposure time (h)
alkyl alcohol alkoxylate		No data available			
citric acid	LD 50	> 2000	Rat	Method not given	
sodium cumenesulphonate	LD 50	> 2000	Rabbit	Method not given	
alkyl alcohol alkoxylate		No data available		Weight of evidence	

Acute inhalative toxicity

Ingredient(s)	Endpoint	Value	Species	Method	Exposure
3		(mg/l)	.,		time (h)
alkyl alcohol alkoxylate		No data			
,		available			
citric acid		No data			
		available			
sodium cumenesulphonate	LC 50	> 770	Rat	Method not given	4
alkyl alcohol alkoxylate		No data			
		available			

# Irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
alkyl alcohol alkoxylate	Irritant	Rabbit	OECD 404 (EU B.4)	
citric acid	Not irritant	Rabbit	OECD 404 (EU B.4)	
sodium cumenesulphonate	Mild irritant	Rabbit	OECD 404 (EU B.4)	
alkyl alcohol alkoxylate	Irritant	Rabbit	Draize test	

Eye irritation and corrosivity

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

Respiratory tract irritation and corrosivity

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

Sensitisation
Sensitisation by skin contact

Ingredient(s)	Result	Species	Method	Exposure time (h)
alkyl alcohol alkoxylate	No data available	Ороско	motriou	Expodure time (ii)
citric acid	Not sensitising	Guinea pig	Method not given	
sodium cumenesulphonate	Not sensitising	Guinea pig	OECD 406 (EU B.6) / GPMT	
alkyl alcohol alkoxylate	No data available			

Sensitisation by inhalation

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

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

widtagernorty				
Ingredient(s)	Result (in-vitro)	Method (in-vitro)	Result (in-vivo)	Method (in-vivo)
alkyl alcohol alkoxylate	No data available		No data available	
citric acid	No data available		No evidence of genotoxicity, negative test results	Method not given
	No evidence for mutagenicity, negative test results		No evidence for mutagenicity, negative test results	OECD 474 (EU B.12)
alkyl alcohol alkoxylate	No data available		No data available	

Carcinogenicity

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

alkyl alcohol alkoxylate			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
alkyl alcohol alkoxylate			No data available				
citric acid			No data available				No evidence for reproductive toxicity
sodium cumenesulphonate	NOAEL	Teratogenic effects	> 3000	Rat	Non guideline test		
alkyl alcohol alkoxylate			No data available				

# Repeated dose toxicity

<b>~</b> .					
Sub-acute	$\cap$ r	SUB-Ch	ronic	oral	toyicity/

Ingredient(s)	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure time (days)	Specific effects and organs affected
alkyl alcohol alkoxylate		No data available				
citric acid		No data available				
sodium cumenesulphonate	NOAEL	763 - 3534		OECD 408 (EU B.26)	90	
alkyl alcohol alkoxylate		No data available				

Sub-chronic dermal 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			,,	
citric acid		No data available				
sodium cumenesulphonate	NOAEL	440	Mouse	Method not given	90	
alkyl alcohol alkoxylate		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
alkyl alcohol alkoxylate		No data available				
citric acid		No data available				
sodium cumenesulphonate		No data available				
alkyl alcohol alkoxylate		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
alkyl alcohol alkoxylate			No data available					
citric acid			No data available					
sodium cumenesulphonate	Dermal	NOAEL	727	Mouse	Method not given	24 month(s)		
alkyl alcohol alkoxylate			No data available					

STOT-single exposure

Ingredient(s)	Affected organ(s)
alkyl alcohol alkoxylate	No data available
citric acid	No data available
sodium cumenesulphonate	No data available
alkyl alcohol alkoxylate	No data available

STOT-repeated exposure

Ingredient(s)	Affected organ(s)
alkyl alcohol alkoxylate	No data available
citric acid	No data available
sodium cumenesulphonate	No data available
alkyl alcohol alkoxylate	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)
alkyl alcohol alkoxylate	LC 50	1- 10	Leuciscus idus	Method not given	48
citric acid	LC 50	440	Leuciscus idus	Method not given	48
sodium cumenesulphonate	LC 50	> 1000	Fish	EPA-OPPTS 850.1075	96
alkyl alcohol alkoxylate	LC 50	1 - 10	Leuciscus idus	Method not given	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
citric acid	EC 50	1535	Daphnia magna Straus	Method not given	24
sodium cumenesulphonate	EC 50	> 1000	Daphnia	EPA-OPPTS 850.1010	48
alkyl alcohol alkoxylate	EC 50	1	Not specified	Method not given	48

Aquatic short-term toxicity - algae

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
alkyl alcohol alkoxylate		No data			-
		available			
citric acid	LC 50	425	Scenedesmus	Method not given	168
			quadricauda		
sodium cumenesulphonate	Er C 50	310	Not specified		72
alkyl alcohol alkoxylate	EC 50	0.1 - 1	Not specified	Method not given	72

Aquatic short-term toxicity - marine species

Ingredient(s)	Endpoint	Value	Species	Method	Exposure
		(mg/l)			time (days)
alkyl alcohol alkoxylate		No data			-
		available			
citric acid		No data			-
		available			
sodium cumenesulphonate		No data			-
		available			
alkyl alcohol alkoxylate		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	
citric acid	EC 50	> 10000	Pseudomonas putida	Method not given	16 hour(s)
sodium cumenesulphonate	Er C 50	> 1000	Bacteria	OECD 209	3 hour(s)
alkyl alcohol alkoxylate		1000	Activated sludge	DIN EN ISO 8192-OECD 209-88/302/EEC	

# Aquatic long-term toxicity Aquatic long-term toxicity - fish

Ingredient(s)	Endpoint	Value	Species	Method	Exposure	Effects observed
		(mg/l)			time	
alkyl alcohol alkoxylate		No data				
		available				
citric acid		No data				
		available				
sodium cumenesulphonate		No data				
·		available				
alkyl alcohol alkoxylate		No data				
•		available	l			

Aquatic long-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
alkyl alcohol alkoxylate		No data				
		available				
citric acid		No data				
		available				
sodium cumenesulphonate		No data				
		available				
alkyl alcohol alkoxylate	NOEC	>0.1- <1	Daphnia	Method not	21 day(s)	
			magna	given		

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
alkyl alcohol alkoxylate		No data available			-	
citric acid		No data available			-	
sodium cumenesulphonate		No data available			-	
alkyl alcohol alkoxylate		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
alkyl alcohol alkoxylate		No data available			-	
citric acid		No data available			-	
sodium cumenesulphonate		No data available			-	
alkyl alcohol alkoxylate		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			-	
citric acid		No data available			-	
sodium cumenesulphonate		No data available			-	
alkyl alcohol alkoxylate		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			-	
citric acid		No data available			-	
sodium cumenesulphonate		No data available			-	
alkyl alcohol alkoxylate		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				
citric acid		No data			-	
		available				
sodium cumenesulphonate		No data			-	
		available				
alkyl alcohol alkoxylate		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			-	
citric acid		No data available			-	
sodium cumenesulphonate		No data available			-	
alkyl alcohol alkoxylate		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

Ready biodegradability - aerobic conditions

Ingredient(s)	Inoculum	Analytical method	DT 50	Method	Evaluation
alkyl alcohol alkoxylate			> 60 % in 28 day(s)	OECD 301F	Readily biodegradable
citric acid			97 % in 28 day(s)	OECD 301B	Readily biodegradable
sodium cumenesulphonate	Activated sludge, aerobe	CO <sub>2</sub> production	100 % in 28 day(s)	OECD 301B	Readily biodegradable
alkyl alcohol alkoxylate		CO <sub>2</sub> production	> 60% in 28 day(s)	OECD 301B	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			
citric acid	-1.72		No bioaccumulation expected	
sodium cumenesulphonate	-1.1	Method not given	Low potential for bioaccumulation	
alkyl alcohol alkoxylate	-		No bioaccumulation expected	

Bioconcentration factor (BCF)

bioconcentration ractor (	DOI)				
Ingredient(s)	Value	Species	Method	Evaluation	Remark
alkyl alcohol alkoxylate	No data available				
citric acid	No data available				
sodium cumenesulphonate	No data available				
alkyl alcohol alkoxylate	-	_	_	No bioaccumulation expected	

#### 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				
citric acid	No data available				Potential for mobility in soil, soluble in water
sodium cumenesulphonate	No data available				
alkyl alcohol alkoxylate	No data available				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.

#### 12.5 Other adverse effects

#### 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 30 - detergents other than those mentioned in 20 01 29.

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: XY60-S0G6-E000-81P0

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

non-ionic surfactants 5 - 15 % anionic surfactants, polycarboxylates < 5 %

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: 683532 Version: 05.0 Revision: 2020-02-19

#### Reason for revision:

This data sheet contains changes from the previous version in section(s):, 2, 6, 7, 15, 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:

- H302 Harmful if swallowed.
- · H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H400 Very toxic to aquatic life.
- H412 Harmful to aquatic life with long lasting effects.

#### 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
- $\bullet$  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**