

Safety Data Sheet

According to Regulation (EC) No 1907/2006

Suma Revoflow Clear A11

Revision: 2025-01-28 Version: 05.0

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

1.1 Product identifier

Trade name: Suma Revoflow Clear A11

UFI: QDQ5-F0K6-D00A-APD2

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

Product use: Dish washing rinse aid. For professional use only.

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

\mbox{SWED} - Sector-specific worker exposure description : $\mbox{AISE_SWED_PW_8b_2}$ $\mbox{AISE_SWED_PW_4_1}$

1.3 Details of the supplier of the safety data sheet

Diversey Europe Operations BV, De Corridor 4, 3621ZB Breukelen [Maarssenbroeksedijk 2, 3542DN Utrecht], The Netherlands

Tel: 01 8081808 (9am - 5pm Mon-Fri) Email: dublin.orders@solenis.com

1.4 Emergency telephone number

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

National Poisons Information Centre

Tel: 01 809 2166. (8.00 a.m. to 10.00 p.m. 7 days a week)

Tel: 01 809 2566 (health care professionals).

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Eye irritation, Category 2 (H319)

2.2 Label elements



Signal word: Warning.

Hazard statements:

H319 - Causes serious eye irritation.

2.3 Other hazards

No other hazards known.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Ingredient(s)	EC number	CAS number	REACH	Classification	Notes	Weight
			number			percent
alkyl alcohol alkoxylate	[4]	111905-53-4	[4]	Acute toxicity - Oral, Category 4 (H302)		10-20
				Eye irritation, Category 2 (H319)		
				Chronic aquatic toxicity, Category 3 (H412)		
Citric acid	201-069-1	-	[1]	Specific target organ toxicity - Single exposure,		3-10
				Category 3 (H335)		
				Eye irritation, Category 2 (H319)		
Alcohols, C12-15-branched and linear,	[4]	120313-48-6	[4]	Skin irritation, Category 2 (H315)		3-10

ethoxylated propoxylated				Acute aquatic toxicity, Category 1 M=1 (H400) Chronic aquatic toxicity, Category 3 (H412)	
sodium cumenesulphonate	239-854-6	15763-76-5	01-211948941	Eye irritation, Category 2 (H319)	1-3
			1-37		

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

ATE, if available, are listed in section 11.

[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.

[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

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. Rinse

cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing. If irritation occurs and persists, get medical attention.

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

Ingestion:

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

Wear eye/face protection.

6.2 Environmental precautions

Dilute with plenty of water. Do not allow to enter drainage system, surface or ground 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). 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.

Advice 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. Avoid contact with eyes. 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/DMEL 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	-	-	-	-
Alcohols, C12-15-branched and linear, ethoxylated propoxylated	No data available	No data available	No data available	No data available
sodium cumenesulphonate	-	-	-	3.8

DNEL/DMEL 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	-
Alcohols, C12-15-branched and linear, ethoxylated propoxylated	No data available	No data available	No data available	No data available
sodium cumenesulphonate	ī	-	-	136.25

DNEL/DMEL 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	-
Alcohols, C12-15-branched and linear, ethoxylated propoxylated	No data available	No data available	No data available	No data available
sodium cumenesulphonate	-	-	-	68.1

DNEL/DMEL 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
Citric acid	-	-	-	-
Alcohols, C12-15-branched and linear, ethoxylated propoxylated	No data available	No data available	No data available	No data available
sodium cumenesulphonate	-	-	-	26.9

DNEL/DMEL inhalatory exposure - Consumer (mg/m³)

DNEL/DMEL Inhalatory exposure - Consumer (mg/m²)				
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	-	-	-	-
Alcohols, C12-15-branched and linear, ethoxylated propoxylated	No data available	No data available	No data available	No data available
sodium cumenesulphonate	-	-	-	6.6

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
Alcohols, C12-15-branched and linear, ethoxylated propoxylated	No data available	No data available	No data available	No data available
sodium cumenesulphonate	0.23	0.023	2.3	100

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	-
Alcohols, C12-15-branched and linear, ethoxylated propoxylated	No data available	No data available	No data available	No data available
sodium cumenesulphonate	0.862	0.0862	0.037	-

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:

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

Appropriate organisational controls: Avoid direct contact and/or splashes where possible. Train personnel.

REACH use scenarios considered for the undiluted product:

·					
	SWED - Sector-specific	LCS	PROC	Duration	ERC
	worker exposure			(min)	
	description				
Automatic transfer and dilution	AISE_SWED_PW_8b_2	PW	PROC 8b	60	ERC8b

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 16321).

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.

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

Recommended maximum concentration (% w/w): 0.05

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

REACH use scenarios considered for the diluted product:

	SWED	LCS	PROC	Duration	ERC
				(min)	
Automatic application in a dedicated system	AISE_SWED_PW_4_1	PW	PROC 4	480	ERC8a

Personal protective equipment

Eye / face protection:
Hand protection:
Body 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

Physical state: Liquid Colour: Clear , Yellow

Odour: Product specific Odour threshold: Not applicable

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		
Alcohols, C12-15-branched and linear, ethoxylated propoxylated	> 250	Method not given	
sodium cumenesulphonate	No data available		

Method / remark

Flammability (solid, gas): Not applicable to liquids

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

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

Lower and upper explosion limit/flammability limit (%): Not determined

Substance data, flammability or explosive limits, if available:

Method / remark

Autoignition temperature: Not determined Decomposition temperature: Not applicable.

pH: =< 2 (neat) ISO 4316 **Dilution pH**: \approx 4 (0.05 %) ISO 4316

Kinematic viscosity: Not determined

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	
Alcohols, C12-15-branched and linear, ethoxylated propoxylated	Insoluble		
sodium cumenesulphonate	493 Soluble	Method not given	20

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

Method / remark

Vapour pressure: Not determined See substance data

Substance data, vapour pressure

Ingredient(s)	Value (Pa)	Method	Temperature (°C)
alkyl alcohol alkoxylate	No data available		
Citric acid	No data available		
Alcohols, C12-15-branched and linear, ethoxylated propoxylated	< 10	Method not given	20
sodium cumenesulphonate	No data available		

Method / remark OECD 109 (EU A.3)

Not relevant to classification of this product

Not applicable to liquids.

Particle characteristics: No data available.

9.2 Other information

Relative density: ≈ 1.04 (20 °C)

Relative vapour density: No data available.

9.2.1 Information with regard to physical hazard classes

Explosive properties: Not explosive. Oxidising properties: Not oxidising. Corrosion to metals: Not corrosive

9.2.2 Other safety characteristics

No other relevant information 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

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 hazard classes as defined in Regulation (EC) No 1272/2008

Mixture data: .

Relevant calculated ATE(s):

ATE - Oral (mg/kg): >2000

Skin irritation and corrosivity

Result: Not corrosive to skin Method: OECD 431 (EU B.40 bis), Episkin

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

Acute toxicity

Acute oral toxicity

Ingredient(s)	Endpoint	Value	Species	Method	Exposure	ATE Oral
		(mg/kg)			time (h)	(mg/kg)
alkyl alcohol alkoxylate	LD 50	≥ 300-2000	Rat	Method not given		Not established
Citric acid	LD 50	5400-11700	Rat	Method not given		Not established
Alcohols, C12-15-branched and linear, ethoxylated propoxylated	LD 50	> 2000	Rat	Method not given		Not established
sodium cumenesulphonate	LD 50	> 7000	Rat	Method not given		Not established

Acute dermal toxicity

Ingredient(s)	Endpoint	Value (mg/kg)	Species	Method	Exposure time (h)	ATE Dermal (mg/kg)
alkyl alcohol alkoxylate		No data available				Not established
Citric acid	LD 50	> 2000	Rat	Method not given		Not established
Alcohols, C12-15-branched and linear, ethoxylated propoxylated		No data available				Not established
sodium cumenesulphonate	LD 50	> 2000	Rabbit	Method not given		Not established

Acute inhalative toxicity

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
alkyl alcohol alkoxylate		No data available			
Citric acid		No data available			
Alcohols, C12-15-branched and linear, ethoxylated propoxylated		No data available			
sodium cumenesulphonate	LC 50	> 5 (mist) No mortality observed	Rat	Read across	3.87

Acute inhalative toxicity, continued

Ingredient(s)	ATE - inhalation, dust	ATE - inhalation, mist	ATE - inhalation,	ATE - inhalation, gas
	(mg/l)	(mg/l)	vapour (mg/l)	(mg/l)
alkyl alcohol alkoxylate	Not established	Not established	Not established	Not established
Citric acid	Not established	Not established	Not established	Not established
Alcohols, C12-15-branched and linear, ethoxylated propoxylated	Not established	Not established	Not established	Not established
sodium cumenesulphonate	Not established	Not established	Not established	Not established

Irritation and corrosivity Skin irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
alkyl alcohol alkoxylate	Mild irritant	Rabbit	OECD 404 (EU B.4)	
Citric acid	Not irritant	Rabbit	OECD 404 (EU B.4)	
Alcohols, C12-15-branched and linear, ethoxylated propoxylated	Irritant	Rabbit	Draize test	
sodium cumenesulphonate	Not irritant	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)	
Citric acid	Severe damage Irritant	Rabbit	OECD 405 (EU B.5)	
Alcohols, C12-15-branched and linear, ethoxylated propoxylated	Not corrosive or irritant	Rabbit	Draize test	
sodium cumenesulphonate	Irritant	Rabbit	OECD 405 (EU B.5)	

Respiratory tract irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
alkyl alcohol alkoxylate	No data available			
Citric acid	No data available			
Alcohols, C12-15-branched and linear, ethoxylated propoxylated	No data available			
sodium cumenesulphonate	No data available			

Sensitisation Sensitisation by skin contact

Ingredient(s)	Result	Species	Method	Exposure time (h)
alkyl alcohol alkoxylate	No data available			
Citric acid	Not sensitising	Guinea pig	Method not given	
Alcohols, C12-15-branched and linear, ethoxylated propoxylated	No data available			
sodium cumenesulphonate	Not sensitising	Guinea pig	OECD 406 (EU B.6) / GPMT	

Sensitisation by inhalation

Ingredient(s)	Result	Species	Method	Exposure time
alkyl alcohol alkoxylate	No data available			
Citric acid	No data available			
Alcohols, C12-15-branched and linear, ethoxylated propoxylated	No data available			
sodium cumenesulphonate	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)
alkyl alcohol alkoxylate	No data available		No data available	
Citric acid	No data available		No evidence of genotoxicity, negative test results	Method not given
Alcohols, C12-15-branched and linear, ethoxylated propoxylated	No data available		No data available	
sodium cumenesulphonate	No evidence for mutagenicity, negative test results	Method not given	No evidence for mutagenicity, negative test results	OECD 474 (EU B.12)

Carcinogenicity

Ingredient(s)	Effect
alkyl alcohol alkoxylate	No data available
Citric acid	No evidence for carcinogenicity, negative test results
Alcohols, C12-15-branched and linear, ethoxylated propoxylated	No data available
sodium cumenesulphonate	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				
Citric acid			No data				No evidence for reproductive
			available				toxicity
Alcohols,			No data				
C12-15-branched and			available				

linear, ethoxylated propoxylated						
sodium cumenesulphonate	NOAEL	Teratogenic effects	> 936	Rat	Non guideline test	No known significant effects or critical hazards

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				
Citric acid		No data available				
Alcohols, C12-15-branched and linear, ethoxylated propoxylated		No data available				
sodium cumenesulphonate	NOAEL	763 - 3534	Rat	OECD 408 (EU B.26)		No effects observed

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				
Alcohols, C12-15-branched and linear, ethoxylated		No data				
propoxylated		available				
sodium cumenesulphonate		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				
Alcohols, C12-15-branched and linear, ethoxylated propoxylated		No data available				
sodium cumenesulphonate		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					
Alcohols, C12-15-branched and linear, ethoxylated propoxylated			No data available					
sodium cumenesulphonate			No data available					

STOT-single exposure

Ingredient(s)	Affected organ(s)
alkyl alcohol alkoxylate	No data available
Citric acid	No data available
Alcohols, C12-15-branched and linear, ethoxylated propoxylated	No data available
sodium cumenesulphonate	Not applicable

STOT-repeated exposure

Ingredient(s)	Affected organ(s)
alkyl alcohol alkoxylate	No data available
Citric acid	No data available
Alcohols, C12-15-branched and linear, ethoxylated propoxylated	No data available
sodium cumenesulphonate	Not applicable

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.

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties
Endocrine disrupting properties - Human data, if available:

11.2.2 Other information

No other relevant information available.

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

requestion to the term to xiloty men					
Ingredient(s)	Endpoint	Value	Species	Method	Exposure
		(mg/l)			time (h)
alkyl alcohol alkoxylate	LC 50	> 1- 10	Leuciscus idus	Method not given	96
Citric acid	LC 50	440	Leuciscus idus	Method not given	48
Alcohols, C12-15-branched and linear, ethoxylated propoxylated	LC 50	> 1-10	Fish	OECD 203 (EU C.1)	96
sodium cumenesulphonate	LC 50	> 1000	Fish	EPA-OPPTS 850.1075	96

Aquatic short-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
alkyl alcohol alkoxylate	EC 50	> 1 - 10	Daphnia magna Straus	Method not given	48
Citric acid	EC 50	1535	Daphnia magna Straus	Method not given	24
Alcohols, C12-15-branched and linear, ethoxylated propoxylated	EC 50	≤ 1	Daphnia magna Straus	OECD 202 (EU C.2)	48
sodium cumenesulphonate	EC 50	> 1000	Daphnia magna Straus	OECD 202 (EU C.2)	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 quadricauda	Method not given	168
Alcohols, C12-15-branched and linear, ethoxylated propoxylated	EC 50	≤ 1	Desmodesmus subspicatus		RM000517/ RM002677 BASF EU RSDS 2021
sodium cumenesulphonate	Еь С 50	> 230	Not specified	EPA OPPTS 850.5400	96

Aquatic short-term toxicity - marine species

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (days)
alkyl alcohol alkoxylate		No data available			
Citric acid		No data available			
Alcohols, C12-15-branched and linear, ethoxylated propoxylated		No data available			
sodium cumenesulphonate		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)
Alcohols, C12-15-branched and linear, ethoxylated propoxylated		No data available			
sodium cumenesulphonate	Er C 50	> 1000	Bacteria	OECD 209	3 hour(s)

Aquatic long-term toxicity

Aduatic	long-term	toxicity -	fish

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
alkyl alcohol alkoxylate		No data available				
Citric acid		No data available				
Alcohols, C12-15-branched and linear, ethoxylated propoxylated		No data available				
sodium cumenesulphonate		No data available				

Aquatic long-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
alkyl alcohol alkoxylate	NOEC	> 0.1 - 1	Daphnia magna	OECD 202	21 day(s)	
Citric acid		No data available				
Alcohols, C12-15-branched and linear, ethoxylated propoxylated	NOEC	> 0.1-1	Daphnia magna	Method not given	21 day(s)	
sodium cumenesulphonate		No data available				

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

Ingredient(s)	Endpoint	Value	Species	Method	Exposure	Effects observed
		(mg/kg dw sediment)			time (days)	
alkyl alcohol alkoxylate		No data				
		available				
Citric acid		No data				
		available				
Alcohols, C12-15-branched and linear, ethoxylated		No data				
propoxylated		available				
sodium cumenesulphonate		No data				
		available				

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

remoderal textions	no, n aranabi	<u> </u>				
Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
Citric acid		No data available				

Terrestrial toxicity - plants, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
Citric acid		No data available				

Terrestrial toxicity - birds, if available:

Ingredient(s)	Endpoint	Value	Species	Method	Exposure time (days)	Effects observed
Citric acid		No data				
		available				

Terrestrial toxicity - beneficial insects, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
Citric acid		No data				
		available				

Terrestrial toxicity - soil bacteria, if available:

Terrestrial toxicity Soil bacteria, il available.						
Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
Citric acid		No data				
	1	available	1		1	

12.2 Persistence and degradability

Abiotic degradation
Abiotic degradation - photodegradation in air, if available:

Ingredient(s)	Half-life time	Method	Evaluation	Remark
Citric acid	No data available			

Abiotic degradation - hydrolysis, if available:

Ingredient(s)	Half-life time in fresh water	Method	Evaluation	Remark
Citric acid	No data available			

Abiotic degradation - other processes, if available:

[Ingredient(s)	Type	Half-life time	Method	Evaluation	Remark
	Citric acid		No data available			

BiodegradationReady biodegradability - aerobic conditions

Ingredient(s)	Inoculum	Analytical method	DT 50	Method	Evaluation
alkyl alcohol alkoxylate	Activated sludge, aerobe	CO ₂ production	> 60 % in 28 day(s)	OECD 301B	Readily biodegradable
Citric acid			97 % in 28 day(s)	Method not given OECD 301B	Readily biodegradable
Alcohols, C12-15-branched and linear, ethoxylated propoxylated	Activated sludge, aerobe	CO ₂ production	> 60% in 28 day(s)	OECD 301B	Readily biodegradable
sodium cumenesulphonate		CO ₂ production	103 - 109% in 28 day(s)	OECD 301B	Readily biodegradable

Ready biodegradability - anaerobic and marine conditions, if available:

Ingredient(s)	Medium & Type	Analytical method	DT 50	Method	Evaluation
Citric acid					No data available

Degradation in relevant environmental compartments, if available:

	Ingredient(s)	Medium & Type	Analytical method	DT 50	Method	Evaluation
Γ	Citric acid					No data available

12.3 Bioaccumulative potential

Ingredient(s)	Value	Method	Evaluation	Remark
alkyl alcohol alkoxylate	No data available			
Citric acid	-1.72		No bioaccumulation expected	
Alcohols, C12-15-branched and linear, ethoxylated propoxylated	No data available			
sodium cumenesulphonate	-1.1	Method not given	No bioaccumulation expected	

Bioconcentration factor (BCF)

Ingredient(s)	Value	Species	Method	Evaluation	Remark
alkyl alcohol alkoxylate	No data available				
Citric acid	No data available				
Alcohols, C12-15-branched and linear, ethoxylated propoxylated	No data available				
sodium cumenesulphonate	No data available				

12.4 Mobility in soil

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
Alcohols, C12-15-branched and linear, ethoxylated propoxylated	No data available				
sodium cumenesulphonate	No data available	_			

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 Endocrine disrupting properties

Endocrine disrupting properties - Environmental effects, if available:

12.7 Other adverse effects

No other adverse effects known.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste from residues / unused 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

<u>Land transport (ADR/RID). Sea transport (IMDG), Air transport (ICAO-TI / IATA-DGR)</u> **14.1 UN number or ID number:** Non-dangerous goods

14.1 UN number or ID number: Non-dangerous goods14.2 UN proper shipping name: Non-dangerous goods14.3 Transport hazard class(es): Non-dangerous goods

14.4 Packing group: Non-dangerous goods14.5 Environmental hazards: Non-dangerous goods14.6 Special precautions for user: Non-dangerous goods

14.7 Maritime transport in bulk according to IMO instruments: 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
- substances identified as having endocrine disrupting properties in accordance with the criteria set out in Delegated Regulation (EU) 2017/2100 or Regulation (EU) 2018/605
- Agreement concerning the International Carriage of Dangerous Goods by Road (ADR)
- International Maritime Dangerous Goods (IMDG) Code

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

Ingredients according to EC Detergents Regulation 648/2004

non-ionic surfactants 5 - 15 % polycarboxylates 5 - 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.

Seveso - Classification: Not classified

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

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Reason for revision:

This data sheet contains changes from the previous version in section(s):, 2, 3, 4, 6, 7, 8, 9, 13, 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.

Abbreviations and acronyms:

- AISE The international Association for Soaps, Detergents and Maintenance Products

- ATE Acute Toxicity Estimate
 DNEL Derived No Effect Limit
 EC50 effective concentration, 50%
- ERC Environmental release categories
- EUH CLP Specific hazard statement
- LC50 Lethal Concentration, 50% / Median Lethal Concentration
- LCS Life cycle stage
 LD50 Lethal Dose, 50% / Median Lethal dose
- NOAEL No observed adverse effect level
 NOEL No observed effect level
- OECD Organisation for Economic Cooperation and Development
 PBT Persistent, Bioaccumulative and Toxic
- PNEC Predicted No Effect Concentration
- PROC Process categories
 REACH number REACH registration number, without supplier specific part
- vPvB very Persistent and very Bioaccumulative
 H302 Harmful if swallowed.
- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- · H335 May cause respiratory irritation.
- H400 Very toxic to aquatic life.
- H412 Harmful to aquatic life with long lasting effects.

End of Safety Data Sheet