

Safety Data Sheet

According to Regulation (EC) No 1907/2006

FL 501 01X

Revision: 2019-08-25 **Version:** 01.00

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

1.1 Product identifier

Trade name: FL 501 01X

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

Identified uses:

For industrial use only.

AISE-P801 - Food process cleaner. Cleaning In place (CIP) process

Disinfectant for closed processing systems (AISE_CS_l02 & AISE_CS_l04)

Descaling product

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

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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

Skin Corr. 1B (H314) Eye Dam. 1 (H318) Met. Corr. 1 (H290)

2.2 Label elements



Signal word: Danger.

Contains methanesulphonic acid (Methanesulphonic Acid), glycolic acid (Glycolic Acid).

Hazard statements:

H314 - Causes severe skin burns and eye damage.

H290 - May be corrosive to metals.

Precautionary statements:

P260 - Do not breathe vapours.

P280 - Wear protective gloves, protective clothing and eye or face protection.

P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

P310 - Immediately call a POISON CENTRE, doctor or physician.

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
methanesulphonic acid	200-898-6	75-75-2	01-2119491166-34	Skin Corr. 1B (H314) Acute Tox. 4 (H302) Acute Tox. 4 (H312) STOT SE 3 (H335) Met. Corr. 1 (H290)		3-10
sodium cumenesulphonate	239-854-6	-	01-2119489411-37	Eye Irrit. 2 (H319)		3-10
glycolic acid	201-180-5	79-14-1	[6]	Skin Corr. 1B (H314) Acute Tox. 4 (H332)		3-10
octenylsuccinic acid	249-244-1	[1]	[1]	Skin Corr. 1B (H314) Acute Tox. 4 (H302) Acute Tox. 4 (H312)		1-3
octanoic acid	204-677-5	124-07-2	[6]	Skin Corr. 1C (H314) Aquatic Chronic 3 (H412)		0.1-1

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.
- [6] Exempted: biocidal active. See Article 15a 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

General Information: If unconscious place in recovery position and seek medical advice. Provide fresh air. If breathing is

irregular or stopped, administer artificial respiration. No mouth-to-mouth or mouth-to-nose

resuscitation. Use Ambu bag or ventilator.

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

Wash skin with plenty of lukewarm, gently flowing water for at least 30 minutes. Take off Skin contact:

immediately all contaminated clothing and wash it before reuse. Immediately call a POISON

CENTRE, doctor or physician.

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. Immediately call a POISON CENTRE,

doctor or physician.

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

person. Do NOT induce vomiting. Keep at rest. Immediately 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.

Causes severe burns. Skin contact:

Eye contact: Causes severe or permanent damage.

Ingestion: Ingestion will lead to a strong caustic effect on mouth and throat and to the danger of perforation of

oesophagus and stomach.

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

Ensure adequate ventilation. Do not breathe dust or vapour. Wear suitable protective clothing, gloves and eye/face protection.

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

Use neutralising agent. Absorb with liquid-binding material (sand, diatomite, universal binders, sawdust). Ensure adequate ventilation.

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 face, hands and any exposed skin thoroughly after handling. Take off immediately all contaminated clothing. Wash contaminated clothing before reuse. Avoid contact with skin and eyes. Do not breathe vapours. 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. Keep from freezing. 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
methanesulphonic acid	-	-	-	8.33
sodium cumenesulphonate	No data available	No data available	No data available	3.8
glycolic acid	-	-	-	0.75
octenylsuccinic acid	-	-	-	-
octanoic acid	-	-	-	2.5

DNEL dermal exposure - Worker

Ingredient(s)	Short term - Local effects (mg/kg bw) effects Short term - Systemic Long term - Local effects		Long term - Systemic effects (mg/kg bw)	
methanesulphonic acid	No data available	- enects (mg/kg bw)	No data available	19.44
sodium cumenesulphonate	No data available	No data available	No data available	7.6
glycolic acid	-	-	-	57.69
octenylsuccinic acid	-	1	-	10
octanoic acid	No data available	-	No data available	10

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)
methanesulphonic acid	No data available	-	No data available	8.33
sodium cumenesulphonate	No data available	No data available	No data available	3.8
glycolic acid	-	-	-	28.85
octenylsuccinic acid	-	No data available	No data available	No data available
octanoic acid	No data available	-	No data available	5

DNEL inhalatory exposure - Worker (mg/m³)

Ingredient(s)	Short term - Local effects	Short term - Systemic effects	Long term - Local effects	Long term - Systemic effects
methanesulphonic acid	-	-	2.89	6.76
sodium cumenesulphonate	No data available	No data available	No data available	53.6
glycolic acid	9.2	9.2	1.53	10.56
octenylsuccinic acid	-	-	-	-
octanoic acid	-	-	-	17.632

DNEL inhalatory exposure - Consumer (mg/m³)

Ingredient(s)	Short term - Local effects	Short term - Systemic effects	Long term - Local effects	Long term - Systemic effects
methanesulphonic acid	-	1.44	1.73	1.44
sodium cumenesulphonate	No data available	No data available	No data available	13.2
glycolic acid	-	2.3	2.3	2.6
octenylsuccinic acid	-	-	-	-
octanoic acid	-	-	-	4.348

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)
methanesulphonic acid	0.012	0.0012	0.12	100
sodium cumenesulphonate	0.23	0.023	2.3	100
glycolic acid	0.0312	0.0031	0.312	7
octenylsuccinic acid	0.02	0.002	0.2	10
octanoic acid	0.007	0.0007	0.22	912

Environmental exposure - PNEC, continued

Ingredient(s)	Sediment, freshwater (mg/kg)	Sediment, marine (mg/kg)	Soil (mg/kg)	Air (mg/m³)
methanesulphonic acid	0.0251	-	0.00183	0.12
sodium cumenesulphonate	0.862	0.086	0.037	No data available
glycolic acid	0.115	0.0115	0.007	-
octenylsuccinic acid	1.7	0.17	0.2	No data available
octanoic acid	0.0739	0.00739	0.0107	-

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: If the product is diluted by using specific dosing systems with no risk of splashes or direct skin

contact, the personal protection equipment as described in this section is not required.

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

Personal protective equipment

Eye / face protection:

Body protection:

Safety glasses or goggles (EN 166). The use of a full-face shield or other full-face protection is

strongly recommended when handling open containers or if splashes may occur.

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

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: ≥ 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.

Wear chemical-resistant clothing and boots in case direct dermal exposure and/or splashes may occur (EN 14605).

Respiratory protection is not normally required. However, inhalation of vapour, spray, gas or Respiratory protection:

aerosols should be avoided.

Environmental exposure controls: Should not reach sewage water or drainage ditch undiluted or unneutralised.

Recommended safety measures for handling the diluted product:

Recommended maximum concentration (%): 1

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

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.

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, Pale Yellow Odour: To Match Standard (TMS) Odour threshold: Not applicable

pH < 2 (neat)ISO 4316 Dilution pH: > 2 (1%)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)
methanesulphonic acid	167	Method not given	
sodium cumenesulphonate	> 100	Method not given	
glycolic acid	112	Method not given	1013
octenylsuccinic acid	No data available		
octanoic acid	237	Method not given	

Method / remark

Flammability (liquid): Not flammable. Flash point (°C): > 93.4 °C

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:

Weight of evidence

Not relevant to classification of this product

Method / remark See substance data

Vapour pressure: Not determined

Substance data, vanour pressure

Ingredient(s)	Value (Pa)	Method	Temperature (°C)
methanesulphonic acid	0.0475	Method not given	20
sodium cumenesulphonate	No data available		
glycolic acid	0.41	Method not given	25
octenylsuccinic acid	No data available		
octanoic acid	5.33	Method not given	20

Method / remark

Not relevant to classification of this product

OECD 109 (EU A.3)

Vapour density: Not determined Relative density: ≈ 1.07 (20 °C)

Solubility in / Miscibility with Water: Fully miscible

Substance data calubility in water

Ingredient(s)	Value (g/l)	Method	Temperature (°C)
methanesulphonic acid	Soluble		
sodium cumenesulphonate	Soluble		
glycolic acid	> 300	Method not given	22
octenylsuccinic acid	No data available		_
octanoic acid	0.0618-0.68	Method not given	20

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

Method / remark

DM-006 Viscosity - Additional

Autoignition temperature: Not determined Decomposition temperature: Not applicable.

Decomposition temperature: Not applicable **Viscosity:** ≈ 5 mPa.s (20 °C)

Explosive properties: Not explosive. **Oxidising properties:** Not oxidising.

pidaive properties. Not explosive.

9.2 Other information

Surface tension (N/m): Not determined Not relevant to classification of this product

Corrosion to metals: 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 and metals. 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 ATE - Dermal (mg/kg): >2000

ATE - Inhalatory, vapours (mg/l): 310

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)
methanesulphonic acid	LD 50	649	Rat	OECD 401 (EU B.1)	
sodium cumenesulphonate	LD 50	> 7000	Rat	Method not given	
glycolic acid	LD 50	2040	Rat	EPA OPP 81-1	
octenylsuccinic acid		No data available			
octanoic acid	LD 50	> 2000	Rat	Method not given	

Acute dermal toxicity

Ingredient(s)	Endpoint	Value (mg/kg)	Species	Method	Exposure time (h)
methanesulphonic acid	LD 50	> 1000	Rabbit	OECD 402 (EU B.3)	
sodium cumenesulphonate	LD 50	> 2000	Rabbit	Method not given	
glycolic acid		No data available			
octenylsuccinic acid		No data available			
octanoic acid	LD 50	> 2000	Rabbit	Method not given	

Acute inhalative toxicity

Acute illinatative toxicity									
	Ingredient(s)	Endpoint	Value	Species	Method	Exposure			
			(mg/l)			time (h)			
	methanesulphonic acid	LC ₀	> 0.0188	Mouse	Method not given	1			

		(vapour) No mortality observed			
sodium cumenesulphonate	LC 50	> 770	Rat	Method not given	4
glycolic acid	LC 50	3.6 (mist)	Rat	OECD 403 (EU B.2)	4
octenylsuccinic acid		No data available			
octanoic acid	LC ₀	> 0.1621 (vapour)	Rat	Non guideline test	4

Irritation and corrosivity Skin irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
methanesulphonic acid	Corrosive	Mouse		1 hour(s)
sodium cumenesulphonate	Mild irritant	Rabbit	OECD 404 (EU B.4)	
glycolic acid	Corrosive	Rabbit	OECD 404 (EU B.4)	
octenylsuccinic acid	No data available			
octanoic acid	Corrosive		OECD 404 (EU B.4)	

Eye irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
methanesulphonic acid	Severe damage	Rabbit	OECD 405 (EU B.5)	
sodium cumenesulphonate	Irritant	Rabbit	OECD 405 (EU B.5)	
glycolic acid	Severe damage	Rabbit	OECD 405 (EU B.5)	
octenylsuccinic acid	No data available			
octanoic acid	Corrosive		Method not given	

Respiratory tract irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
methanesulphonic acid	No data available			
sodium cumenesulphonate	No data available			
glycolic acid	No data available			
octenylsuccinic acid	No data available			
octanoic acid	No data available			

Sensitisation

Sensitisation by skin contact

Ingredient(s)	Result	Species	Method	Exposure time (h)
methanesulphonic acid	Not sensitising	Guinea pig	OECD 406 (EU B.6) /	
			Buehler test	
sodium cumenesulphonate	Not sensitising	Guinea pig	OECD 406 (EU B.6) /	
			GPMT	
glycolic acid	Not sensitising	Guinea pig	OECD 406 (EU B.6) /	
	_		GPMT	
octenylsuccinic acid	No data available			
octanoic acid	Not sensitising			

Sensitisation by inhalation

echistisation by inhalation				
Ingredient(s)	Result	Species	Method	Exposure time
methanesulphonic acid	No data available			
sodium cumenesulphonate	No data available			
glycolic acid	No data available			
octenylsuccinic acid	No data available			
octanoic acid	No data available			

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

Mutagementy				
Ingredient(s)	Result (in-vitro)	Method (in-vitro)	Result (in-vivo)	Method (in-vivo)
methanesulphonic acid	No evidence for mutagenicity, negative test results	,	No evidence for mutagenicity, negative test results	OECD 474 (EU B.12)
sodium cumenesulphonate	No evidence for mutagenicity, negative test results		No evidence for mutagenicity, negative test results	OECD 474 (EU B.12)
glycolic acid			No evidence for mutagenicity No evidence of genotoxicity, negative test results	OECD 474 (EU B.12)
octenylsuccinic acid	No data available		No data available	
octanoic acid	No evidence for mutagenicity, negative test results	OECD 476	No data available	

Carcinogenicity

- 1	1	Tree
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methanesulphonic acid	No data available
sodium cumenesulphonate	No evidence for carcinogenicity, negative test results
glycolic acid	No evidence for carcinogenicity, weight-of-evidence
octenylsuccinic acid	No data available
octanoic acid	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
methanesulphonic acid	NOAEL	Impaired fertility Developmental toxicity	≥ 400	Rat	OECD 414 (EU B.31), oral OECD 421, oral		No evidence for reproductive toxicity
sodium cumenesulphonate	NOAEL	Teratogenic effects	> 3000	Rat	Non guideline test		
glycolic acid			No data available				No evidence for reproductive toxicity
octenylsuccinic acid			No data available				
octanoic acid			No data available				No evidence for reproductive toxicity

Repeated dose toxicity
Sub-acute or sub-chronic oral toxicity

Ingredient(s)	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure time (days)	
methanesulphonic acid		No data available				
sodium cumenesulphonate	NOAEL	763 - 3534		OECD 408 (EU B.26)	90	
glycolic acid	NOAEL LOAEL	150 300	Rat	OECD 408 (EU B.26)	90	No adverse effects observed
octenylsuccinic acid		No data available				
octanoic acid	NOAEL	1000	Rat	Method not given		

Sub-chronic dermal toxicity

Ingredient(s)	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure time (days)	
methanesulphonic acid		No data available				
sodium cumenesulphonate	NOAEL	440	Mouse	Method not given	90	
glycolic acid		No data available				
octenylsuccinic acid		No data available				
octanoic acid		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
methanesulphonic acid	NOAEL	0.026	Rat	Method not given	30	
sodium cumenesulphonate		No data available				
glycolic acid		No data available				
octenylsuccinic acid		No data available				
octanoic acid		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
methanesulphonic acid			No data available					
sodium cumenesulphonate	Dermal	NOAEL	727	Mouse	Method not given	24 month(s)		
glycolic acid			No data available					
octenylsuccinic acid			No data available					
octanoic acid			No data available					

STOT-single exposure

Ingredient(s)	Affected organ(s)
methanesulphonic acid	Respiratory tract
sodium cumenesulphonate	No data available
glycolic acid	No data available
octenylsuccinic acid	No data available
octanoic acid	No data available

STOT-repeated exposure

Ingredient(s)	Affected organ(s)
methanesulphonic acid	Respiratory tract
sodium cumenesulphonate	No data available
glycolic acid	No data available
octenylsuccinic acid	No data available
octanoic acid	No data available

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)
methanesulphonic acid	LC 50	73	Oncorhynchus mykiss	OECD 203 (EU C.1)	96
sodium cumenesulphonate	LC 50	> 1000	Fish	EPA-OPPTS 850.1075	96
glycolic acid	LC 50	114.8	Pimephales promelas	Method not given	96
octenylsuccinic acid	LC 50	> 100	Oncorhynchus mykiss	Method not given Read across	96
octanoic acid	LC 50	110	Brachydanio rerio	Method not given	96

Aquatic short-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
methanesulphonic acid	EC 50	10 - 100	Daphnia magna Straus	OECD 202, static	48
sodium cumenesulphonate	EC 50	> 1000	Daphnia	EPA-OPPTS 850.1010	48
glycolic acid	EC 50	99.6	Daphnia magna Straus	OECD 202 (EU C.2)	48
octenylsuccinic acid	LC 50	> 100	Daphnia	Method not given Read across	24
octanoic acid	LC 50	170	Daphnia magna Straus	Method not given	24

Aquatic short-term toxicity - algae

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
methanesulphonic acid	EC 50	12 - 24	Pseudokirchner iella subcapitata	OECD 201 (EU C.3)	72
sodium cumenesulphonate	Er C 50	310	Not specified		72
glycolic acid	NOEC	14.4	Pseudokirchner iella subcapitata	OECD 201 (EU C.3)	72
octenylsuccinic acid	EC 50	110	Selenastrum capricornutum	Method not given Read across	96
octanoic acid	EC 50	31	Pseudokirchner iella subcapitata	Method not given	72

Aquatic short-term toxicity - marine species

Ingredient(s)	Endpoint	Value	Species	Method	Exposure
		(mg/l)			time (days)

methanesulphonic acid	No data	=
	available	
sodium cumenesulphonate	No data	-
	available	
glycolic acid	No data	-
	available	
octenylsuccinic acid	No data	
	available	
octanoic acid	No data	-
	available	

Impact on sewage plants - toxicity to bacteria

Ingredient(s)	Endpoint	Value (mg/l)	Inoculum	Method	Exposure time
methanesulphonic acid	EC 20	> 1000	Activated sludge	DIN EN ISO 8192-OECD 209-88/302/EEC	0.5 hour(s)
sodium cumenesulphonate	Er C 50	> 1000	Bacteria	OECD 209	3 hour(s)
glycolic acid		No data available			
octenylsuccinic acid		No data available			
octanoic acid		No data available			

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

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
methanesulphonic acid		No data				
		available				
sodium cumenesulphonate		No data				
		available				
glycolic acid		No data				
		available				
octenylsuccinic acid		No data				
		available				
octanoic acid		No data				
		available				

Aquatic long-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
methanesulphonic acid		No data				
sodium cumenesulphonate		available No data				
		available				
glycolic acid		No data available				
octenylsuccinic acid		No data available				
octanoic acid	EC 50	0.51	Daphnia magna	Method not given	21 day(s)	

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
methanesulphonic acid		No data available			-	
sodium cumenesulphonate		No data available			-	
glycolic acid		No data available			-	
octenylsuccinic acid		No data available				
octanoic acid		No data available			-	

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

Ingredient(s)	Endpoint	Value	Species	Method	Exposure	Effects observed
		(mg/kg dw soil)			time (days)	
methanesulphonic acid		No data available			-	
sodium cumenesulphonate		No data available			-	
glycolic acid		No data available			-	
octanoic acid		No data			-	

	available		

Terrestrial toxicity - plants, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
methanesulphonic acid		No data available			-	
sodium cumenesulphonate		No data available			-	
glycolic acid		No data available			-	
octanoic acid		No data available			-	

Terrestrial toxicity - birds, if available:

Ingredient(s)	Endpoint	Value	Species	Method	Exposure time (days)	Effects observed
methanesulphonic acid		No data available			-	
sodium cumenesulphonate		No data available			-	
glycolic acid		No data available			-	
octanoic 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
methanesulphonic acid		No data available			-	
sodium cumenesulphonate		No data available			-	
glycolic acid		No data available			-	
octanoic acid		No data available			-	

Terrestrial toxicity - soil bacteria, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
methanesulphonic acid		No data available			-	
sodium cumenesulphonate		No data available			-	
glycolic acid		No data available			-	
octanoic acid		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

ability - aerobic conditions

Ingredient(s)	Inoculum	Analytical method	DT 50	Method	Evaluation
methanesulphonic acid		COD removal	>70 % in 28 day(s)	OECD 301A	Readily biodegradable
sodium cumenesulphonate	Activated sludge, aerobe	CO ₂ production	100 % in 28 day(s)	OECD 301B	Readily biodegradable
glycolic acid	Activated sludge, aerobe	CO ₂ production		OECD 301B	Readily biodegradable
octenylsuccinic acid	Activated sludge, aerobe			OECD 301D Read across	Readily biodegradable
octanoic acid				OECD 301D	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
methanesulphonic acid	-5.17		No bioaccumulation expected	
sodium cumenesulphonate	-1.1	Method not given	Low potential for bioaccumulation	
glycolic acid	-1.07	Method not given	No bioaccumulation expected	
octenylsuccinic acid	4.68	Read across		
octanoic acid	3.05	Method not given		

Bioconcentration factor (BCF)

Ingredient(s)	Value	Species	Method	Evaluation	Remark
methanesulphonic acid	No data available				
sodium cumenesulphonate	No data available				
glycolic acid	No data available				
octenylsuccinic acid	No data available				
octanoic acid	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
methanesulphonic acid	0		Model calculation		Mobile in soil
sodium cumenesulphonate	No data available				
glycolic acid	No data available				
octenylsuccinic acid	No data available				
octanoic acid	69.63				

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 14* - acids.

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: 3265

14.2 UN proper shipping name:

Corrosive liquid, acidic, organic, n.o.s. (methanesulphonic acid)

14.3 Transport hazard class(es):

Transport hazard class (and subsidiary risks): 8

14.4 Packing group: II
14.5 Environmental hazards:
Environmentally hazardous: No

Marine pollutant: No

14.6 Special precautions for user: None known.

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code: The product is not transported in bulk tankers.

Other relevant information:

ADR

Classification code: C3
Tunnel restriction code: E
Hazard identification number: 80

IMO/IMDG

EmS: F-A. S-B

The product has been classified, labelled and packaged in accordance with the requirements of ADR and the provisions of the IMDG Code Transport regulations include special provisions for certain classes of dangerous goods packed in limited quantities.

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
- · Regulation (EU) No 528/2012 on biocidal products

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

UFI: V79A-K0U0-C00V-3N1N

Ingredients according to EC Detergents Regulation 648/2004

anionic surfactants

< 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

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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:

- H290 May be corrosive to metals
- · H302 Harmful if swallowed
- · H312 Harmful in contact with skin.
- H314 Causes severe skin burns and eve damage.
- · H319 Causes serious eye irritation.
- · H332 Harmful if inhaled.
- H335 May cause respiratory irritation.
- H402 Harmful 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
- 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