Safety Data Sheet

According to Regulation (EC) No 1907/2006

ZENITH 4X CLEANER SANITISER CONCENTRATE

Revision: 2022-04-11 Version: 01.0

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

1.1 Product identifier

Trade name: ZENITH 4X CLEANER SANITISER CONCENTRATE

UFI: JRNF-Y1D6-800H-MQMN

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

Product use: Kitchen surface cleaner.

Surface disinfectant.

For professional use only.

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

SWED - Sector-specific worker exposure description : AISE_SWED_PW_8a_1 AISE_SWED_PW_10_1

AISE_SWED_PW_11_1 AISE_SWED_PW_19_1

1.3 Details of the supplier of the safety data sheet

Diversey Ltd, Weston Favell Centre, Northampton NN3 8PD, United Kingdom

Contact details

Zenith Hygiene Group A1M Business Centre Dixons Hill Road Welham Green Herts AL9 7JE www.zhgplc.com 01707 270260 customercare-zenith@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 Irrit. 2 (H315) Eye Dam. 1 (H318) Aquatic Acute 1 (H400) Aquatic Chronic 2 (H411)

2.2 Label elements



Signal word: Danger.

Contains alkyldimethylbenzylammoniumchloride (Benzalkonium Chloride), alkyl alcohol ethoxylate (Trideceth 7-10)

Hazard statements:

H315 - Causes skin irritation.

H318 - Causes serious eye damage.

H410 - Very toxic to aquatic life with long lasting effects.

Precautionary statements:

P280 - Wear eye or face protection.

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

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Ingredient(s)	EC number	CAS number	REACH number	Classification	Notes	Weight percent
alkyldimethylbenzylammoniumchloride	270-325-2	68424-85-1	[6]	Skin Corr. 1B (H314) Acute Tox. 4 (H302) Acute Tox. 4 (H312) Eye Dam. 1 (H318) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)		1-3
alkyl alcohol ethoxylate	[4]	69011-36-5	[4]	Acute Tox. 4 (H302) Eye Dam. 1 (H318)		1-3

Specific concentration limits

alkyl alcohol ethoxylate:

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.
[6] Exempted: biocidal active. See Article 15(2) of Regulation (EC) No 1907/2006.
For the full text of the H and EUH phrases mentioned in this Section, see Section 16.

ATE, if available, are listed in section 11...

SECTION 4: First aid measures

4.1 Description of first aid measures

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

Skin contact: Take off immediately all contaminated clothing and wash it before reuse.

Hold eyelids apart and flush eyes with plenty of lukewarm water for at least 15 minutes. Remove Eye contact:

contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTRE,

doctor or physician.

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

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.

Causes irritation. Skin contact: Eye contact:

Causes severe or permanent damage. 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

[•] Eye Dam. 1 (H318) >= 10% > Eye Irrit. 2 (H319) >= 1%

Wear eye/face protection.

6.2 Environmental precautions

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

6.3 Methods and material for containment and cleaning up

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

6.4 Reference to other sections

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

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Measures to prevent fire and explosions:

No special precautions required.

Measures required to protect the environment:

For environmental exposure controls see subsection 8.2.

Advices on general occupational hygiene:

Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs. Wash face, hands and any exposed skin thoroughly after handling. Take off contaminated clothing. Wash contaminated clothing before reuse. Avoid contact with eyes. Use only with adequate ventilation. Do not mix with other products. 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.

Comah - Lower Tier requirements (tonnes): 100 Comah - Upper Tier requirements (tonnes): 200

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
alkyldimethylbenzylammoniumchloride	-	-	-	3.4
alkyl alcohol ethoxylate	-	-	-	-

DNEL/DMEL dermal exposure - Worker

DNLL/DIVILL dermai exposure - Worker				
Ingredient(s)		Short term - Systemic	. 5	Long term - Systemic
	effects	effects (mg/kg bw)	effects	effects (mg/kg bw)
alkyldimethylbenzylammoniumchloride	-	-	-	5.7
alkyl alcohol ethoxylate	-	-	=	-

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)
alkyldimethylbenzylammoniumchloride	-	-	-	3.4
alkyl alcohol ethoxylate	-	-	-	-

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
alkyldimethylbenzylammoniumchloride	-	-	-	3.96
alkyl alcohol ethoxylate	-	-	-	-

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

Ingredient(s)	Short term - Local effects	Short term - Systemic effects	Long term - Local effects	Long term - Systemic effects
alkyldimethylbenzylammoniumchloride	-	-	-	1.64
alkyl alcohol ethoxylate	-	-	-	-

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)
alkyldimethylbenzylammoniumchloride	0.0009	0.00096	0.00016	0.4
alkyl alcohol ethoxylate	-	-	-	-

Environmental exposure - PNEC, continued

Environmental exposure 1 NEO, continued				
Ingredient(s)	Sediment, freshwater (mg/kg)	Sediment, marine (mg/kg)	Soil (mg/kg)	Air (mg/m³)
alkyldimethylbenzylammoniumchloride	12.27	13.09	7	-
alkyl alcohol ethoxylate	-	-	-	-

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: Activities covered:

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.

REACH use scenarios considered for the undiluted product:

	SWED - Sector-specific worker exposure description	LCS	PROC	Duration (min)	ERC
Manual transfer and dilution Manual transfer of product to a container (bottle,	AISE_SWED_PW_8a_1	PW	PROC 8a	60	ERC8a
bucket, machine)					

Personal protective equipment

Eye / face protection:

Safety glasses or goggles (EN 166).

Hand protection: Repeated or prolonged contact: Chemical-resistant protective gloves (EN 374). Verify instructions

regarding permeability and breakthrough time, as provided by the gloves supplier. Consider specific

local use conditions, such as risk of splashes, cuts, contact time and temperature.

Suggested gloves for prolonged contact: Material: butyl rubber Penetration time: ≥ 480 min Material

thickness: ≥ 0.7 mm

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

Material thickness: ≥ 0.4 mm

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

be chosen.

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

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

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

Recommended maximum concentration (% w/w): 4

Appropriate engineering controls: Provide a good standard of general ventilation.

Appropriate organisational controls: No special requirements under normal use conditions. Users are advised to consider national

Occupational Exposure Limits or other equivalent values, if available.

REACH use scenarios considered for the diluted product:

	SWED	LCS	PROC	Duration	ERC
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				(min)	
Manual application by brushing, wiping or mopping	AISE_SWED_PW_10_1	PW	PROC 10	480	ERC8a
Spray application	AISE_SWED_PW_11_1	PW	PROC 11	60	ERC8a
Manual application	AISE_SWED_PW_19_1	PW	PROC 19	480	ERC8a

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.

Should not reach sewage water or drainage ditch undiluted. **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 , Dark , Purple 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)
alkyldimethylbenzylammoniumchloride	> 107	Method not given	(2)
alkyl alcohol ethoxylate	> 200	Method not given	

Method / remark

Flammability (solid, gas): Not applicable to liquids

Flammability (liquid): Not flammable.

Flash point (°C): Not applicable.

Sustained combustion: The product does not sustain combustion

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

Weight of evidence

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

Substance data, flammability or explosive limits, if available:

Ingredient(s)	Lower limit (% vol)	Upper limit (% vol)
alkyldimethylbenzylammoniumchloride	-	-

Method / remark

Autoignition temperature: Not determined

Decomposition temperature: Not applicable.

ISO 4316 **pH**: ≈ 11 (neat) **Dilution pH:** ≈ 10 (4 %) 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)	
alkyldimethylbenzylammoniumchloride	Soluble	Method not given		
alkyl alcohol ethoxylate	Soluble	Method not given	20	

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

Method / remark See substance data

Vapour pressure: Not determined

Ingredient(s)	Value (Pa)	Method	Temperature (°C)
alkyldimethylbenzylammoniumchloride	2300	Method not given	20
alkyl alcohol ethoxylate	Negligible	Method not given	20-25

Method / remark

OECD 109 (EU A.3) Relative density: ≈ 1.02 (20 °C)

Relative vapour density: Not determined. Not relevant to classification of this product Particle characteristics: No data available.

Not applicable to liquids.

9.2 Other information

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

Reacts with acids.

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

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

Acute toxicity

Ingredient(s)	Endpoint	Value (mg/kg)	Species	Method	Exposure time (h)	ATE (mg/kg)
alkyldimethylbenzylammoniumchloride	LD 50	304.5	Rat			11000
alkyl alcohol ethoxylate	LD 50	> 300-2000	Rat	OECD 423 (EU B.1 tris)		22000

Acute dermal toxicity

Ingredient(s)	Endpoint	Value (mg/kg)	Species	Method	Exposure time (h)	ATE (mg/kg)
alkyldimethylbenzylammoniumchloride	LD 50	3412	Rabbit	Method not given		120000
alkyl alcohol ethoxylate	LD 50	> 2000	Rabbit	Method not given		Not established

Acute inhalative toxicity

Ingredient(s)	Endpoint	Value	Species	Method	Exposure
		(mg/l)			time (h)
alkyldimethylbenzylammoniumchloride		No data			
		available			
alkyl alcohol ethoxylate		No data			
• •		available			

Acute inhalative toxicity, continued

Ingredient(s)	ATE - inhalation, dust (mg/l)	ATE - inhalation, mist (mg/l)	ATE - inhalation, vapour (mg/l)	ATE - inhalation, gas (mg/l)
alkyldimethylbenzylammoniumchloride	Not established	Not established	Not established	Not established
alkyl alcohol ethoxylate	Not established	Not established	Not established	Not established

Irritation and corrosivity Skin irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
alkyldimethylbenzylammoniumchloride	Corrosive	Rabbit	Method not given	
alkyl alcohol ethoxylate	Not irritant	Rabbit	OECD 404 (EU B.4)	

Eye irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
alkyldimethylbenzylammoniumchloride	Severe damage		Method not given	
alkyl alcohol ethoxylate	Severe damage	Rabbit	Method not given	

Respiratory tract irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
alkyldimethylbenzylammoniumchloride	No data available			
alkyl alcohol ethoxylate	No data available			

Sensitisation

Sensitisation by skin contact

ocholisation by skin contact				
Ingredient(s)	Result	Species	Method	Exposure time (h)
alkyldimethylbenzylammoniumchloride	Not sensitising	Guinea pig	OECD 406 (EU B.6) /	
	_		Buehler test	
alkyl alcohol ethoxylate	Not sensitising	Guinea pig	Method not given	

Sensitisation by inhalation

Ingredient(s)	Result	Species	Method	Exposure time
alkyldimethylbenzylammoniumchloride	No data available			
alkyl alcohol ethoxylate	No data available			

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

wutagenicity				
Ingredient(s)	Result (in-vitro)	Method	Result (in-vivo)	Method
		(in-vitro)		(in-vivo)
alkyldimethylbenzylammoniumchloride	No evidence of genotoxicity, negative	OECD 471 (EU	No evidence of genotoxicity, negative	OECD 474 (EU
	test results	B.12/13) OECD	test results	B.12)
		476 OECD 473		
alkyl alcohol ethoxylate	No evidence of genotoxicity, negative	Method not	No evidence of genotoxicity, negative	Method not
·	test results	given	test results	given

Carcinogenicity

Carcinogenicity	
Ingredient(s)	Effect
alkyldimethylbenzylammoniumchloride	No data available
alkyl alcohol ethoxylate	No evidence for carcinogenicity, weight-of-evidence

Toxicity for reproduction

Toxicity for reproduction							
Ingredient(s)	Endpoint	Specific effect	Value	Species	Method	Exposure	Remarks and other effects
	·		(mg/kg bw/d)	·		time	reported
alkyldimethylbenzylam			No data				
moniumchloride			available				
alkyl alcohol ethoxylate	NOAEL	Teratogenic effects	> 50	Rat	Not known		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
alkyldimethylbenzylammoniumchloride		No data				
		available				
alkyl alcohol ethoxylate		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
alkyldimethylbenzylammoniumchloride		No data				

	available		
alkyl alcohol ethoxylate	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
alkyldimethylbenzylammoniumchloride		No data available				
alkyl alcohol ethoxylate		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
alkyldimethylbenzylam			No data					
moniumchloride			available					
alkyl alcohol ethoxylate	Oral	NOAEL	50	Rat	Method not	24 month(s)	Effects on organ weights	
					given			

STOT-single exposure

Ingredient(s)	Affected organ(s)
alkyldimethylbenzylammoniumchloride	No data available
alkyl alcohol ethoxylate	Not applicable

STOT-repeated exposure

Ingredient(s)	Affected organ(s)
alkyldimethylbenzylammoniumchloride	No data available
alkyl alcohol ethoxylate	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

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
alkyldimethylbenzylammoniumchloride	LC 50	0.515	Fish	Method not given	96
alkyl alcohol ethoxylate	LC 50	1 - 10	Cyprinus carpio	OECD 203 (EU C.1)	96

Aquatic short-term toxicity - crustacea

Ingredient(s)	Endpoint	Value	Species	Method	Exposure
		(mg/l)			time (h)
alkyldimethylbenzylammoniumchloride	EC 50	0.016	Daphnia	Method not given	48
alkyl alcohol ethoxylate	EC 50	1 - 10	Daphnia	OECD 202, static	48
			magna Straus		

Aquatic short-term toxicity - algae

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
alkyldimethylbenzylammoniumchloride	EC 50	0.02	Selenastrum	OECD 201 (EU C.3)	72
			capricornutum		
alkyl alcohol ethoxylate	EC 50	1 - 10	Desmodesmus	OECD 201, static	72

						subspi	catus			
quatic short-term toxicity - marine species Ingredient(s)			Endpoint	Valu	ıe	Speci	ies		Method	Exposur
alkyldimethylbenzylammoniumch	lorido		.,	(mg/	/ 1)					time (day
	londe			availa	ıble					
alkyl alcohol ethoxylate				No da availa						
					•					
mpact on sewage plants - toxicity to bacteria Ingredient(s)			Endpoint	Valu	ا ما	Inocul	um		Method	Exposur
alkyldimethylbenzylammoniumch	larida		EC 20	(mg/		Activa			DECD 209	time 0.5 hour(
	londe					slud	ge			,
alkyl alcohol ethoxylate			EC 10	> 100	000	Activa slud		DIN :	38412 / Part 8	17 hour(
Aquatic long-term toxicity										
equatic long-term toxicity - fish Ingredient(s)	Endpoint	Value	e Sr	pecies	Me	thod	Expo	sure	Effects ob	served
alkyldimethylbenzylammoniumchloride	-	(mg/l) No dat					tim			
		availab	le							
alkyl alcohol ethoxylate		No dat availab								
equatic long-term toxicity - crustacea										
Ingredient(s)	Endpoint	Value (mg/l)		ecies	Me	thod	Expo		Effects ob	served
alkyldimethylbenzylammoniumchloride	NOEC	0.025	D	aphnia	OEC	D 211	21 da			
alkyl alcohol ethoxylate		No dat	а	nagna						
		availab	ie							
quatic toxicity to other aquatic benthic organisms, inc					:					
Ingredient(s)	Endpoint	Value (mg/kg		ecies	Me	thod	Expo		Effects ob	served
alkyldimethylbenzylammoniumchloride		sedimer No dat	nt)				· `	- 1		
		availab	le							
alkyl alcohol ethoxylate		No dat availab								
orrectrial toxicity										
errestrial toxicity - soil invertebrates, including earthy								_		
	vorms, if availabl Endpoint	Value (mg/kg		oecies	Me	thod	Expo	sure days)	Effects ob	served
errestrial toxicity - soil invertebrates, including earthy		Value (mg/kg o soil) No dat	a .	oecies	Ме	thod	Expo	esure days)	Effects ob	served
errestrial toxicity - soil invertebrates, including earthw Ingredient(s) alkyldimethylbenzylammoniumchloride	Endpoint	Value (mg/kg (soil) No dat availab	a le		Me	thod	Expo time (d	esure days)	Effects ob	served
errestrial toxicity - soil invertebrates, including earthw Ingredient(s)		Value (mg/kg o soil) No dat	a le	nia fetida	Me	thod	Expo time (d	esure days)	Effects ob	served
errestrial toxicity - soil invertebrates, including earthw Ingredient(s) alkyldimethylbenzylammoniumchloride alkyl alcohol ethoxylate Terrestrial toxicity - plants, if available:	Endpoint NOEC	Value (mg/kg (soil) No dat availab 220	a le Eise	nia fetida			time (days)		
alkyldimethylbenzylammoniumchloride	Endpoint	Value (mg/kg soil) No dat availab 220 Value (mg/kg soil)	dw a le Eise			thod	Expo	sure	Effects ob	
errestrial toxicity - soil invertebrates, including earthw Ingredient(s) alkyldimethylbenzylammoniumchloride alkyl alcohol ethoxylate Terrestrial toxicity - plants, if available:	Endpoint NOEC	Value (mg/kg soil) No dat availab 220 Value (mg/kg soil) No dat	a le Eise	nia fetida			time (d	sure		
errestrial toxicity - soil invertebrates, including earthw Ingredient(s) alkyldimethylbenzylammoniumchloride alkyl alcohol ethoxylate errestrial toxicity - plants, if available: Ingredient(s)	Endpoint NOEC	Value (mg/kg soil) No dat availab 220 Value (mg/kg soil)	a le Eise Sp	nia fetida	Me		time (d	sure		
errestrial toxicity - soil invertebrates, including earthw Ingredient(s) alkyldimethylbenzylammoniumchloride alkyl alcohol ethoxylate errestrial toxicity - plants, if available: Ingredient(s) alkyldimethylbenzylammoniumchloride	NOEC Endpoint	Value (mg/kg soil) No dat availab 220 Value (mg/kg soil) No dat availab	a le Eise Sp dw a le Le	nia fetida Decies	Me	thod	time (d	sure		
errestrial toxicity - soil invertebrates, including earthw Ingredient(s) alkyldimethylbenzylammoniumchloride alkyl alcohol ethoxylate errestrial toxicity - plants, if available: Ingredient(s) alkyldimethylbenzylammoniumchloride	NOEC Endpoint	Value (mg/kg soil) No dat availab 220 Value (mg/kg soil) No dat availab	a le Eise Sp dw a le Le	nia fetida pecies	Me	thod	time (d	sure		
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errestrial toxicity - soil invertebrates, including earthwing language in the	NOEC NOEC	Value (mg/kg soil) No dat availab 220 Value (mg/kg soil) No dat availab 10 Value No dat	a le Eise St	nia fetida pecies epidium ativum	Me	thod	Expo	esure days)	Effects ob	served
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errestrial toxicity - soil invertebrates, including earthwing language in the	NOEC NOEC	Value (mg/kg soil) No dat availab 220 Value (mg/kg soil) No dat availab 10 Value	a le Eise St	nia fetida pecies epidium ativum	Me OEC	thod CD 208	Expo	esure days)	Effects ob	served

Terrestrial toxicity - soil bacteria, if available:

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

12.2 Persistence and degradability

Abiotic degradation

Abiotic degradation - photodegradation in air, if available:

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

Abiotic degradation - hydrolysis, if available:

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

Abiotic degradation - other processes, if available:

Ingredient(s)	Туре	Half-life time	Method	Evaluation	Remark
alkyldimethylbenzylam		No data available			
moniumchloride					

Biodegradation

Ready biodegradability - aerobic conditions

Ingredient(s)	Inoculum	Analytical method	DT 50	Method	Evaluation
alkyldimethylbenzylammoniumchloride		Oxygen depletion	> 60%	Read across	Readily biodegradable
alkyl alcohol ethoxylate	Activated sludge, aerobe	CO ₂ production	> 60 % 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
alkyldimethylbenzylammoniumchloride					No data available

Degradation in relevant environmental compartments, if available:

Degradation in relevant environmental compartments, if available.								
Ingredient(s)	Medium & Type	Analytical method	DT 50	Method	Evaluation			
alkyldimethylbenzylammoniumchloride					No data available			

12.3 Bioaccumulative potential

Partition coefficient n-octanol/water (log l				
Ingredient(s)	Value	Method	Evaluation	Remark
alkyldimethylbenzylammoniumchloride	0.004	Method not given	No bioaccumulation expected	at 20 °C
alkyl alcohol ethoxylate	4.09	QSAR	No bioaccumulation expected	

Bioconcentration factor (BCF)

Ingredient(s)	Value	Species	Method	Evaluation	Remark
alkyldimethylbenzylam	79	Lepomis		Low potential for bioaccumulation	
moniumchloride		macrochirus			
alkyl alcohol ethoxylate	-			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
alkyldimethylbenzylammoniumchloride	No data available				
alkyl alcohol ethoxylate	No data available				Immobile in soil or sediment

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 propertiesEndocrine 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

The concentrated contents or contaminated packaging should be disposed of by a certified handler Waste from residues / unused products: 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

Dispose of observing national or local regulations. Recommendation:

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: 3082

14.2 UN proper shipping name:

Environmentally hazardous substance, liquid, n.o.s. (alkyldimethylbenzylammoniumchloride)

14.3 Transport hazard class(es):

Transport hazard class (and subsidiary risks): 9

14.4 Packing group: III 14.5 Environmental hazards:

Environmentally hazardous: Yes

Marine pollutant: Yes

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:

Classification code: M6 Tunnel restriction code: Hazard identification number: 90

IMO/IMDG

EmS: F-A, S-F

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 dangerous goods packed in small quantities classified under UN3077 or UN3082

SECTION 15: Regulatory information

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

National regulations:

- Regulation (EC) 1907/2006 REACH (UK amended)
- Regulation (EC) 1272/2008 CLP (UK amended)
 Regulation (EC) 648/2004 Detergents regulation (UK amended)
- Biocidal Products Regulations 2001 (SI 2001/880)
- 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 Detergents Regulation

non-ionic surfactants < 5 %

disinfectants

The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) 648/2004 on detergents (UK amended). Data to support this assertion are held at the disposal of the competent authorities of the UK and will be made available to them, at their direct request or at the request of a detergent manufacturer.

Comah - classification: E1 - Hazardous to the Aquatic Environment in Category Acute 1 or Chronic 1

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: MS1005001 Version: 01.0 Revision: 2022-04-11

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.H312 Harmful in contact with skin.
- H314 Causes severe skin burns and eye damage.
- H318 Causes serious eye damage.
- H400 Very toxic to aquatic life.
- H410 Very toxic 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 Organisation for Economic Cooperation and Development

End of Safety Data Sheet