

Safety Data Sheet

According to Regulation (EC) No 1907/2006

Shield Cleaner Disinfectant Concentrate

Revision: 2024-08-05 **Version**: 02.0

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

1.1 Product identifier

Trade name: Shield Cleaner Disinfectant Concentrate

UFI: SV43-S0EK-S002-SJSA

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

Product use: Restroom/bathroom cleaner. for general surface disinfection

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

SWED - Sector-specific worker exposure description :

AISE_SWED_PW_1_1
AISE_SWED_PW_18a_1
AISE_SWED_PW_11_1
AISE_SWED_PW_19_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

Contact details

Diversey Ltd

Weston Favell Centre, Northampton NN3 8PD, United Kingdom

Tel: 01604 405311, Fax: 01604 406809

Regulatory Email: customerservice.uk@solenis.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 irritation, Category 2 (H315) Serious eye damage, Category 1 (H318) Chronic aquatic toxicity, Category 3 (H412)

2.2 Label elements



Signal word: Danger.

Contains alkyl alcohol ethoxylate (C9-11 Pareth-5-10), n-alkyl dimethyl benzyl ammonium chloride (Benzalkonium Chloride), tetrasodium ethylene diamine tetraacetate (Tetrasodium EDTA)

Hazard statements:

H315 - Causes skin irritation.

H318 - Causes serious eye damage.

H412 - Harmful 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.

SECTION 3: Composition/information on ingredients

3,2 Mixtures

Ingredient(s)	EC number	CAS number	REACH	Classification	Notes	Weight
			number			percent
alkyl alcohol ethoxylate	[4]	68439-46-3	[4]	Acute toxicity - Oral, Category 4 (H302)		3-10
				Serious eye damage, Category 1 (H318)		
tetrasodium ethylene diamine	200-573-9	64-02-8	01-211948676	Acute toxicity - Oral, Category 4 (H302)		1-3
tetraacetate			2-27	Acute toxicity - Inhalation, Category 4 (H332)		
				Specific target organ toxicity - Repeated		
				exposure, Category 2 (H373)		
				Serious eye damage, Category 1 (H318)		
n-alkyl dimethyl benzyl ammonium	270-325-2	68424-85-1	[6]	Skin corrosion, Category 1B (H314)		1-3
chloride				Acute toxicity - Oral, Category 4 (H302)		
				Acute toxicity - Dermal, Category 4 (H312)		
				Serious eye damage, Category 1 (H318)		
				Acute aquatic toxicity, Category 1 M=10 (H400)		
				Chronic aquatic toxicity, Category 1 M=1 (H410)		

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

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

SECTION 4: First aid measures

4.1 Description of first aid measures

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

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.

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

person. Get medical attention or advice if you feel unwell.

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

4.2 Most important symptoms and effects, both acute and delayed

Inhalation: No known effects or symptoms in normal use.

Skin contact: Causes irritation.

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

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

Wear suitable gloves. Wear eye/face protection.

6.2 Environmental precautions

Dilute with plenty of water. Do not allow to enter drainage system, surface or ground water. Do not allow to enter the ground/soil. 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). Do not place spilled materials back into the original container. Collect in closed and suitable containers for disposal.

6.4 Reference to other sections

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

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Measures to prevent fire and explosions:

No special precautions required.

Measures required to protect the environment:

For environmental exposure controls see subsection 8.2.

Advices on general occupational hygiene:

Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs. Do not mix with other products unless adviced by Diversey. Wash face, hands and any exposed skin thoroughly after handling. Take off contaminated clothing. Wash contaminated clothing before reuse. Avoid contact with skin and eyes. Do not breathe spray. 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/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 ethoxylate	-	-	-	-
tetrasodium ethylene diamine tetraacetate	-	-	-	25
n-alkyl dimethyl benzyl ammonium chloride	-	-	-	3.4

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 ethoxylate	-	-	-	-
tetrasodium ethylene diamine tetraacetate	-	-	-	-
n-alkyl dimethyl benzyl ammonium chloride	-	- 1	-	5.7

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 ethoxylate	-	-	-	-
tetrasodium ethylene diamine tetraacetate	-	-	-	-
n-alkyl dimethyl benzyl ammonium chloride	-	-	-	3.4

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 ethoxylate	-	-	-	-
tetrasodium ethylene diamine tetraacetate	3	3	1.5	1.5
n-alkyl dimethyl benzyl ammonium chloride	-	-	-	3.96

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
alkyl alcohol ethoxylate	-	-	-	-
tetrasodium ethylene diamine tetraacetate	1.2	1.2	0.6	-
n-alkyl dimethyl benzyl ammonium chloride	-	-	-	1.64

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 ethoxylate	-	-	-	-
tetrasodium ethylene diamine tetraacetate	2.2	0.22	1.2	43
n-alkyl dimethyl benzyl ammonium chloride	0.0009	0.00096	0.00016	0.4

Environmental exposure - PNEC, continued

Ingredient(s)	Sediment, freshwater (mg/kg)	Sediment, marine (mg/kg)	Soil (mg/kg)	Air (mg/m³)
alkyl alcohol ethoxylate	-	•	•	•
tetrasodium ethylene diamine tetraacetate	-	-	0.72	-
n-alkyl dimethyl benzyl ammonium chloride	12.27	13.09	7	-

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: 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	AISE_SWED_PW_8a_1	PW	PROC 8a	60	ERC8a
Manual transfer and dilution	AISE_SWED_PW_1_1	PW	PROC 1	60	ERC8a

Personal protective equipment

Eye / face protection:

Safety glasses or goggles (EN 16321 / EN 166).

Hand protection: Rinse and dry hands after use. For prolonged contact protection for the skin may be necessary. 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. No special requirements under normal use conditions. Respiratory protection:

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): 10

Appropriate engineering controls: Provide a good standard of general ventilation. No special requirements under normal use conditions. Appropriate organisational controls:

REACH use scenarios considered for the diluted product:

	SWED	LCS	PROC	Duration	ERC
				(min)	
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:

Hand protection:

No special requirements under normal use conditions.

No special requirements under normal use conditions.

Body protection:

No special requirements under normal use conditions.

Respiratory protection: Trigger spray bottle application: No special requirements under normal use conditions. Apply

technical measures to comply with the occupational exposure limits, if available.

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 , Blue 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 ethoxylate	> 232.2	Method not given	
tetrasodium ethylene diamine tetraacetate	No data available	Non-experimental data	
n-alkyl dimethyl benzyl ammonium chloride	> 107	Method not given	

Method / remark

Flammability (solid, gas): Not applicable to liquids

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

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

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

See substance data

Substance data, flammability or explosive limits, if available

Substance data, naminability of explosive limits, if available.		
Ingredient(s)	Lower limit	Upper limit
	(% vol)	(% vol)
n-alkyl dimethyl benzyl ammonium chloride	-	-

Method / remark

Autoignition temperature: Not determined **Decomposition temperature:** Not applicable.

pH: ≈ 10 (neat) 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 ethoxylate	100 Soluble	Method not given	
tetrasodium ethylene diamine tetraacetate	500	Method not given	20
n-alkyl dimethyl benzyl ammonium chloride	Soluble	Method not given	

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 ethoxylate	< 10	Method not given	37.8
tetrasodium ethylene diamine tetraacetate	0.0000000002	Read across	25
n-alkyl dimethyl benzyl ammonium chloride	2300	Method not given	20

Method / remark

OECD 109 (EU A.3) Relative density: ≈ 1.07 (20 °C)

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

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

Weight of evidence

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

None known under normal use conditions.

10,6 Hazardous decomposition products

None known under normal storage and use conditions.

SECTION 11: Toxicological information

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

Mixture data: .

Relevant calculated ATE(s):

ATE - Oral (mg/kg): >2000 ATE - Dermal (mg/kg): >2000 ATE - Inhalatory, mists (mg/l): >5

Eye irritation and corrosivity

Result: Eye damage 1 Method: OECD 438, Histology Substance data, where relevant and available, are listed below:.

Acute toxicity

Ingredient(s)	Endpoint	Value (mg/kg)	Species	cies Method		ATE Oral (mg/kg)
alkyl alcohol ethoxylate	LD 50	1400	Rat	Weight of evidence		1400
tetrasodium ethylene diamine tetraacetate	LD 50	1780	Rat	OECD 401 (EU B.1)		1780
n-alkyl dimethyl benzyl ammonium chloride	LD 50	304.5	Rat			304.5

Acute dermal toxicity

Ingredient(s)	Endpoint	Value (mg/kg)	Species	Method	Exposure time (h)	ATE Dermal (mg/kg)
alkyl alcohol ethoxylate	LD 50	2000 - 5000	Rat	Weight of evidence		Not established
tetrasodium ethylene diamine tetraacetate	LD 50	> 5000	Rabbit	Method not given		Not established
n-alkyl dimethyl benzyl ammonium chloride	LD 50	3412	Rabbit	Method not given		3412

Acute inhalative toxicity

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

alkyl alcohol ethoxylate		No data available			
tetrasodium ethylene diamine tetraacetate	LC 50	≥ 1-5 (dust)	Rat	OECD 403 (EU B.2)	6
n-alkyl dimethyl benzyl ammonium chloride		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)
alkyl alcohol ethoxylate	Not established	Not established	Not established	Not established
tetrasodium ethylene diamine tetraacetate	Not established	30	Not established	Not established
n-alkyl dimethyl benzyl ammonium chloride	Not established	Not established	Not established	Not established

Irritation and corrosivity

Skin irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
alkyl alcohol ethoxylate	Not irritant		Weight of evidence	
tetrasodium ethylene diamine tetraacetate	Not irritant	Rabbit	OECD 404 (EU B.4)	
n-alkyl dimethyl benzyl ammonium chloride	Corrosive	Rabbit	Method not given	_

Eye irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
alkyl alcohol ethoxylate	Severe damage	Rabbit	Weight of evidence OECD 437	
tetrasodium ethylene diamine tetraacetate	Severe damage		Method not given	
n-alkyl dimethyl benzyl ammonium chloride	Severe damage		Method not given	

Respiratory tract irritation and corrosivity

respiratory trast irritation and somestify				
Ingredient(s)	Result	Species	Method	Exposure time
alkyl alcohol ethoxylate	No data available			
tetrasodium ethylene diamine tetraacetate	No data available			
n-alkyl dimethyl benzyl ammonium chloride	No data available			

Sensitisation

Sensitisation by skin contact

Ingredient(s)	Result	Species	Method	Exposure time (h)
alkyl alcohol ethoxylate	Not sensitising		Weight of evidence	
tetrasodium ethylene diamine tetraacetate	Not sensitising	Guinea pig	OECD 406 (EU B.6) / GPMT	
n-alkyl dimethyl benzyl ammonium chloride	Not sensitising	Guinea pig	OECD 406 (EU B.6) / Buehler test	

Sensitisation by inhalation

Ingredient(s)	Result	Species	Method	Exposure time
alkyl alcohol ethoxylate	No data available			
tetrasodium ethylene diamine tetraacetate	No data available			
n-alkyl dimethyl benzyl ammonium chloride	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)
, ,	No evidence for mutagenicity, negative test results	OECD 473	No data available	
•	No evidence for mutagenicity, negative test results		No evidence of genotoxicity, negative test results	Method not given
	test results	OECD 471 (EU B.12/13) OECD 476 OECD 473	test results	OECD 474 (EU B.12)

Carcinogenicity

Sarcinogenicity	
Ingredient(s)	Effect
alkyl alcohol ethoxylate	No evidence for carcinogenicity, negative test results
tetrasodium ethylene diamine tetraacetate	No evidence for carcinogenicity, weight-of-evidence
n-alkyl dimethyl benzyl ammonium chloride	No data available

Toxicity for reproduction

Toxioity for reproduction							
Ingredient(s)	Endpoint	Specific effect	Value	Species	Method	Exposure	Remarks and other effects
			(mg/kg bw/d)			time	reported
alkyl alcohol ethoxylate	NOAEL		> 250	Rat	Not known		No effects on fertility No

				developmental toxicity
tetrasodium ethylene diamine tetraacetate		No data available		No evidence for reproductive toxicity
n-alkyl dimethyl benzyl ammonium chloride		No data available		

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

Ingredient(s)	Endpoint	Value	Species	Method		Specific effects and organs
		(mg/kg bw/d)			time (days)	affected
alkyl alcohol ethoxylate	NOAEL	80 - 400		OECD 408 (EU		
				B.26)		
tetrasodium ethylene diamine tetraacetate		No data				
		avai l able				
n-alkyl dimethyl benzyl ammonium chloride		No data				
		available				

Sub-chronic dermal toxicity

Ingredient(s)	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure time (days)	Specific effects and organs affected
alkyl alcohol ethoxylate	NOAEL	80		OECD 411 (EU B.28)	90	
tetrasodium ethylene diamine tetraacetate		No data avai l able				
n-alkyl dimethyl benzyl ammonium chloride		No data avai l able				

Sub-chronic inhalation toxicity

Ingredient(s)	Endpoint	Value	Species	Method	Exposure	Specific effects and organs
		(mg/kg bw/d)			time (days)	affected
alkyl alcohol ethoxylate		No data				
		avai l able				
tetrasodium ethylene diamine tetraacetate		No data				
		avai l able				
n-alkyl dimethyl benzyl ammonium chloride		No data				
		available				

Chronic toxicity

Chronic toxicity								
Ingredient(s)	Exposure route	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure time	Specific effects and organs affected	Remark
allud alaahal athawdata						tillic	organs anected	
alkyl alcohol ethoxylate			No data					
			available					
tetrasodium ethylene			No data					
diamine tetraacetate			available					
n-alkyl dimethyl benzyl			No data					
ammonium chloride			available					

STOT-single exposure

Ingredient(s)	Affected organ(s)
alkyl alcohol ethoxylate	No data available
tetrasodium ethylene diamine tetraacetate	No data available
n-alkyl dimethyl benzyl ammonium chloride	No data available

STOT-repeated exposure

OTOT-repeated exposure	
Ingredient(s)	Affected organ(s)
alkyl alcohol ethoxylate	No data available
tetrasodium ethylene diamine tetraacetate	Respiratory tract
n-alkyl dimethyl benzyl ammonium chloride	No data available

Aspiration hazard

Substances with an aspiration hazard (H304), if any, are listed in section 3.

Potential adverse health effects and symptoms

Effects and symptoms related to the product, if any, are listed in subsection 4.2.

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)
alkyl alcohol ethoxylate	LC 50	5 - 7	Fish	92/69/EEC, C1, semi-static	96
tetrasodium ethylene diamine tetraacetate	LC 50	> 100	Lepomis macrochirus	OPP 72-1, static (EPA)	96
n-alkyl dimethyl benzyl ammonium chloride	LC 50	0.515	Fish	Method not given	96

Aquatic short-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
alkyl alcohol ethoxylate	EC 50	5.3	Daphnia	92/69/EEC	48
tetrasodium ethylene diamine tetraacetate	EC 50	140	Daphnia magna Straus	DIN 38412, Part 11	48
n-alkyl dimethyl benzyl ammonium chloride	EC 50	0.016	Daphnia	Method not given	48

Aquatic short-term toxicity - algae

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
alkyl alcohol ethoxylate	EC 50	1.4 - 47	Not specified	92/69/EEC	72
tetrasodium ethylene diamine tetraacetate	EC 50	> 100	Scenedesmus obliquus	88/302/EEC, Part C, static	72
n-alkyl dimethyl benzyl ammonium chloride	EC 50	0.02	Selenastrum capricornutum	OECD 201 (EU C.3)	72

Aquatic short-term toxicity - marine species

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (days)
alkyl alcohol ethoxylate		No data			
		available			
tetrasodium ethylene diamine tetraacetate		No data			
· ·		available			
n-alkyl dimethyl benzyl ammonium chloride		No data			
		available			

Impact on sewage plants - toxicity to bacteria

Ingredient(s)	Endpoint	Value (mg/l)	Inoculum	Method	Exposure time
alkyl alcohol ethoxylate	EC 50	> 140	Bacteria	DIN EN ISO 8192-OECD 209-88/302/EEC	3 hour(s)
tetrasodium ethylene diamine tetraacetate	EC 20	> 500	Activated sludge	OECD 209	0.5 hour(s)
n-alkyl dimethyl benzyl ammonium chloride	EC 20	5	Activated sludge	OECD 209	0.5 hour(s)

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

Ingredient(s)	Endpoint	Value	Species	Method	Exposure	Effects observed
		(mg/l)			time	
alkyl alcohol ethoxylate	EC 10	8.983	Not specified	Method not	21 day(s)	
,			,	given	, ,	
tetrasodium ethylene diamine tetraacetate	NOEC	> 25.7	Brachydanio	OECD 210	35 day(s)	
•			rerio			
n-alkyl dimethyl benzyl ammonium chloride		No data				
		available				

Aquatic long-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
alkyl alcohol ethoxylate	EC 10	2.579	Daphnia sp.	Method not given	21 day(s)	
tetrasodium ethylene diamine tetraacetate	NOEC	25	Daphnia magna	OECD 211	21 day(s)	

Daphnia

OECD 211

21 day(s)

0.025

NOEC

Ingredient(s)	Endpoint	Value	Species	Method	Exposure	Effects observed
ingredient(3)	Lindpoint	(mg/kg dw sediment)	Opecies	Metriod	time (days)	Lifects observed
alkyl alcohol ethoxylate		No data avai l able				
tetrasodium ethylene diamine tetraacetate		No data avai l able				
n-alkyl dimethyl benzyl ammonium chloride		No data avai l able				

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

n-alkyl dimethyl benzyl ammonium chloride

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
tetrasodium ethylene diamine tetraacetate	LD 50	156	Eisenia fetida	OECD 207	14	
n-alkyl dimethyl benzyl ammonium chloride		No data avai l able				

Terrestrial toxicity - plants, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
tetrasodium ethylene diamine tetraacetate	NOEC	0.25 - 1.25			21	
n-alkyl dimethyl benzyl ammonium chloride		No data avai l able				

Terrestrial toxicity - birds, if available:

Torrocaria toxicony birac; il artanabioi						
Ingredient(s)	Endpoint	Value	Species	Method	Exposure time (days)	Effects observed
n-alkyl dimethyl benzyl ammonium chloride		No data avai l able				

Terrestrial toxicity - beneficial insects, if available:

Terrestrial toxicity - beneficial insects, if available.						
Ingredient(s)	Endpoint	Value	Species	Method	Exposure	Effects observed
		(mg/kg dw			time (days)	
		soil)				
n-alkyl dimethyl benzyl ammonium chloride		No data				
		available				

Terrestrial toxicity - soil bacteria, if available:

Terrestrial toxicity Soil bacteria, il available:						
Ingredient(s)	Endpoint	Value	Species	Method	Exposure	Effects observed
		(mg/kg dw			time (days)	
		soil)				
n-alkyl dimethyl benzyl ammonium chloride		No data				
		available				

12.2 Persistence and degradability

Abiotic degradation

Abiotic degradation - photodegradation in air, ii available.								
	Ingredient(s)	Half-life time	Method	Evaluation	Remark			
	tetrasodium ethylene diamine tetraacetate	No data available						
	n-alkyl dimethyl benzyl ammonium chloride	No data available						

Abiotic degradation - hydrolysis, if available:

Ingredient(s)	Half-life time in fresh water	Method	Evaluation	Remark
tetrasodium ethylene diamine tetraacetate	No data available			
n-alkyl dimethyl benzyl ammonium chloride	No data available			

Abjoric degradation - other processes, if available:

Ablotic degradation - other processes, it available.							
	Ingredient(s)	Type	Half-life time	Method	Evaluation	Remark	
	tetrasodium ethylene		No data available				
	diamine tetraacetate						
	n-alkyl dimethyl benzyl		No data available				
	ammonium chloride						

Biodegradation

Ready biodegradability - aerobic conditions

Ingredient(s)	Inoculum	Analytical method	DT 50	Method	Evaluation
alkyl alcohol ethoxylate				OECD 301B	Readily biodegradable
tetrasodium ethylene diamine tetraacetate				Weight of evidence	Not readily biodegradable.
n-alkyl dimethyl benzyl ammonium chloride		Oxygen depletion	> 60%	Read across	Readily biodegradable

Ready biodegradability - anaerobic and marine conditions, if available:

Ingredient(s)	Medium & Type	Analytical method	DT 50	Method	Evaluation
tetrasodium ethylene diamine tetraacetate					No data available
n-alkyl dimethyl benzyl ammonium chloride					No data available

Degradation in relevant environmental compartments, if available:

Ingredient(s)	Medium & Type	Analytical method	DT 50	Method	Evaluation
tetrasodium ethylene diamine tetraacetate					No data available
n-alkyl dimethyl benzyl ammonium chloride					No data available

12.3 Bioaccumulative potential

Partition coefficient n-octanol/water (log Kow)

Ingredient(s)	Value	Method	Evaluation	Remark
alkyl alcohol ethoxylate	3.11 - 4.19	Method not given	High potential for bioaccumulation	
tetrasodium ethylene diamine tetraacetate	-3.86	Method not given	No bioaccumulation expected	
n-alkyl dimethyl benzyl ammonium chloride	0.004	Method not given	No bioaccumulation expected	at 20 °C

Bioconcentration factor (BCF)

Ingredient(s)	Value	Species	Method	Evaluation	Remark
alkyl alcohol ethoxylate	< 500	•	Method not given	High potential for bioaccumulation	
tetrasodium ethylene diamine tetraacetate	1.8	Lepomis macrochirus	OECD 305	Low potential for bioaccumulation	
n-alkyl dimethyl benzyl ammonium chloride	79	Lepomis macrochirus		Low potential for bioaccumulation	

12.4 Mobility in soil

Adsorption/Desorption to soil or sediment

	Ingredient(s)	Adsorption coefficient Log Koc	Desorption coefficient Log Koc(des)	Method	Soil/sediment type	Evaluation
	alkyl alcohol ethoxylate	No data available				Potential for mobility in soil, soluble in water
tet	rasodium ethylene diamine tetraacetate	No data available				Adsorption to solid soil phase is not expected
n-a	lkyl dimethyl benzyl ammonium chloride	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

products:

The concentrated contents or contaminated packaging should be disposed of by a certified handler or according to the site permit. Release of waste to sewers is discouraged. The cleaned packaging

material is suitable for energy recovery or recycling in line with local legislation.

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

Empty packaging

Recommendation: Dispose of observing national or local regulations.

Suitable cleaning agents: Water, if necessary with cleaning agent.

SECTION 14: Transport information

Land transport (ADR/RID), Sea transport (IMDG), Air transport (ICAO-TI / IATA-DGR)

14.1 UN number or ID number: Non-dangerous goods 14.2 UN proper shipping name: Non-dangerous goods 14.3 Transport hazard class(es): Non-dangerous goods

14.4 Packing group: Non-dangerous goods

14.5 Environmental hazards: Non-dangerous goods 14.6 Special precautions for user: Non-dangerous goods

14.7 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

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)
- Delegated Regulation (EU) 2017/2100 and Regulation (EU) 2018/605 (UK amended)
- 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, phosphates 5 - 15 % EDTA and salts thereof < 5 % perfumes, Hexyl Cinnamal, Limonene, Citronellol, Benzyl Alcohol, 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: 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

SDS code: MS1003506 Version: 02.0 Revision: 2024-08-05

Reason for revision:

Overall design adjusted in accordance with Amendment 2020/878, Annex II of Regulation (EC) No 1907/2006, This data sheet contains changes from the previous version in section(s):, 2, 3, 4, 6, 7, 8, 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 stageLD50 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.
 H312 Harmful in contact with skin.
 H314 Causes severe skin burns and eye damage.
 H318 Causes serious eye damage.
 H332 Harmful if inhaled.
 H373 May cause damage to organs through prolonged or repeated exposure.
 H400 Very toxic to aquatic life.
 H410 Very toxic to aquatic life with long lasting effects.

End of Safety Data Sheet