Safety Data Sheet

Shield Cleaner Disinfectant Concentrate

Revision: 2018-01-25 **Version:** 01.1

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

1.1 Product identifier
Trade name: Shield Cleaner Disinfectant Concentrate

1.2 Relevant identified uses of the substance or mixture and uses advised against
Identified uses:
For professional use only.
AISE-P305 - Sanitary cleaner. Manual process
AISE-P306 - Sanitary cleaner. Spray and wipe manual process
AISE-P314 - Surface disinfectant. Manual process
AISE-P315 - Surface disinfectant. Spray and rinse manual process
Uses advised against: Uses other than those identified are not recommended

1.3 Details of the supplier of the safety data sheet
Diversey Europe Operations BV, Maarssenbroeksedijk 2, 3542DN Utrecht, The Netherlands

Contact details
Diversey Ltd
Weston Favell Centre, Northampton NN3 8PD, United Kingdom
Tel: 01604 405311, Fax: 01604 406809
Regulatory Email: customerservice.uk@diversey.com

1.4 Emergency telephone number
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 Chronic 3 (H412)

2.2 Label elements



Signal word: Danger.

Contains alkyl alcohol ethoxylate (C9-11 Pareth-6).

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

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Ingredient(s)	EC number	CAS number	REACH number	Classification	Notes	Weight percent
alkyl alcohol ethoxylate	Polymer*	68439-46-3	[4]	Acute Tox. 4 (H302) Eye Dam. 1 (H318)		3-10
tetrasodium ethylene diamine tetraacetate	200-573-9	64-02-8	01-2119486762-27	Acute Tox. 4 (H302) Acute Tox. 4 (H332) STOT RE 2 (H373) Eye Dam. 1 (H318)		1-3
alkyldimethylbenzylammoniumchloride	270-325-2	68424-85-1	No data available	Skin Corr. 1B (H314) Acute Tox. 4 (H302) Acute Tox. 4 (H312) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)		1-3

* Polymer.
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.
For the full text of the H and EUH phrases mentioned in this Section, see Section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

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

Skin contact: Wash skin with plenty of lukewarm, gently flowing water. Take off immediately all contaminated clothing and wash it before re-use. If skin irritation occurs: Get medical advice or attention.

Eye contact: Hold eyelids apart and flush eyes with plenty of lukewarm water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. 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 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

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

Absorb with liquid-binding material (sand, diatomite, universal binders, sawdust).

6.4 Reference to other sections

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

SECTION 7: Handling and storage

7.1 Precautions for safe handling
Measures to prevent fire and explosions:
No special precautions required.

Measures required to protect the environment:
For environmental exposure controls see subsection 8.2.

Advices on general occupational hygiene:
Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs. Do not mix with other products unless adviced by Diversey. Wash hands before breaks and at the end of workday. Wash face, hands and any exposed skin thoroughly after handling. Take off immediately all contaminated clothing. Wash contaminated clothing before reuse. Use personal protective equipment as required. Avoid contact with eyes. Use only with adequate ventilation.

7.2 Conditions for safe storage, including any incompatibilities
Store in accordance with local and national regulations. Keep only in original container. Store in a closed container. Keep from freezing.

7.3 Specific end use(s)
No specific advice for end use available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

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
alkyldimethylbenzylammoniumchloride	-	-	-	3.4

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	-	-	-	-
alkyldimethylbenzylammoniumchloride	-	-	-	5.7

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	-	-	-	-
alkyldimethylbenzylammoniumchloride	-	-	-	3.4

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	2.5	2.5	-	-
alkyldimethylbenzylammoniumchloride	-	-	-	3.96

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	1.5	1.5	-	-
alkyldimethylbenzylammoniumchloride	-	-	-	1.64

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
alkyldimethylbenzylammoniumchloride	0.0009	0.00009	0.00016	0.4

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	-
alkyldimethylbenzylammoniumchloride	0.267	0.0267	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 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: Safety glasses or goggles (EN 166).
Hand protection: 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: No special requirements under normal use conditions.

Recommended safety measures for handling the diluted product:

Recommended maximum concentration (%): 10

Appropriate engineering controls: No special requirements under normal use conditions. Provide a good standard of general ventilation.
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: Rinse and dry hands after use. For prolonged contact protection for the skin may be necessary.
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, Blue	
Odour: Slightly perfumed	
Odour threshold: Not applicable	
pH: ≈ 10 (neat)	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

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	
alkyldimethylbenzylammoniumchloride	> 107	Method not given	

Flash point (°C): Not applicable.
Sustained combustion: Not applicable.
(UN Manual of Tests and Criteria, section 32, L.2)

Evaporation rate: Not determined	Not relevant to classification of this product
Flammability (solid, gas): Not applicable to liquids	
Upper/lower flammability limit (%): Not determined	See substance data

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

alkyldimethylbenzylammoniumchloride	-	-

Vapour pressure: Not determined — See substance data

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
alkyldimethylbenzylammoniumchloride	2300	Method not given	20

Vapour density: Not determined — Not relevant to classification of this product
Relative density: ≈ 1.07 (20 °C) — OECD 109 (EU A.3)
Solubility in / Miscibility with Water: Fully miscible

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
alkyldimethylbenzylammoniumchloride	Soluble	Method not given	

Autoignition temperature: Not determined
Decomposition temperature: Not applicable.
Viscosity: Not determined — Not relevant to classification of this product
Explosive properties:
Oxidising properties:

9.2 Other information
Surface tension (N/m): Not determined — Not relevant to classification of this product
Corrosion to metals: Not corrosive

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): >5000
ATE - Dermal (mg/kg): >5000
ATE - Inhalatory, mists (mg/l): >20

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

Ingredient(s)	Endpoint	Value (mg/kg)	Species	Method	Exposure time (h)
alkyl alcohol ethoxylate	LD_{50}	300 - 2000		Method not given	
tetrasodium ethylene diamine tetraacetate	LD_{50}	>= 1780	Rat	Non guideline test	

alkyldimethylbenzylammoniumchloride	LD_{50}	398	Rat		

Ingredient(s)	Endpoint	Value (mg/kg)	Species	Method	Exposure time (h)
alkyl alcohol ethoxylate	LD_{50}	2000 - 5000	Rat	Method not given	
tetrasodium ethylene diamine tetraacetate	LD_{50}	> 5000	Rabbit	Method not given	
alkyldimethylbenzylammoniumchloride	LD_{50}	800 - 1420	Rat	Method not given	

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
alkyl alcohol ethoxylate		No data available			
tetrasodium ethylene diamine tetraacetate	LC_{50}	>= 1 (dust)	Rat	OECD 403 (EU B.2)	6
alkyldimethylbenzylammoniumchloride		No data available			

Ingredient(s)	Result	Species	Method	Exposure time
alkyl alcohol ethoxylate	Not irritant		Method not given	
tetrasodium ethylene diamine tetraacetate	Not irritant	Rabbit	Non guideline test	
alkyldimethylbenzylammoniumchloride	Corrosive		Method not given	

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

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

Ingredient(s)	Result	Species	Method	Exposure time (h)
alkyl alcohol ethoxylate	Not sensitising	Guinea pig	Method not given	
tetrasodium ethylene diamine tetraacetate	Not sensitising	Guinea pig	OECD 406 (EU B.6) / GPMT	
alkyldimethylbenzylammoniumchloride	Not sensitising		Method not given	

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

Ingredient(s)	Result (in-vitro)	Method (in-vitro)	Result (in-vivo)	Method (in-vivo)
alkyl alcohol ethoxylate	No evidence for mutagenicity, negative test results	OECD 473	No data available	
tetrasodium ethylene diamine tetraacetate	No evidence for mutagenicity, negative test results	Method not given	No evidence of genotoxicity, negative test results	Method not given
alkyldimethylbenzylammoniumchloride	No evidence for mutagenicity, negative test results	OECD 471 (EU B.12/13)	No data available	

Ingredient(s)	Effect
alkyl alcohol ethoxylate	No evidence for carcinogenicity, negative test results
tetrasodium ethylene diamine tetraacetate	No evidence for carcinogenicity, weight-of-evidence
alkyldimethylbenzylammoniumchloride	No data available

Ingredient(s)	Endpoint	Specific effect	Value (mg/kg bw/d)	Species	Method	Exposure time	Remarks and other effects 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
alkyldimethylbenzylam moniumchloride			No data available				

Ingredient(s)	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure time (days)	Specific effects and organs affected
alkyl alcohol ethoxylate	NOAEL	80 - 400		Method not given		
tetrasodium ethylene diamine tetraacetate		No data available				

alkyldimethylbenzylammoniumchloride		No data available				

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 available				
alkyldimethylbenzylammoniumchloride		No data available				

Ingredient(s)	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure time (days)	Specific effects and organs affected
alkyl alcohol ethoxylate		No data available				
tetrasodium ethylene diamine tetraacetate		No data available				
alkyldimethylbenzylammoniumchloride		No data available				

Ingredient(s)	Exposure route	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure time	Specific effects and organs affected	Remark
alkyl alcohol ethoxylate			No data available					
tetrasodium ethylene diamine tetraacetate			No data available					
alkyldimethylbenzylammoniumchloride			No data available					

Ingredient(s)	Affected organ(s)
alkyl alcohol ethoxylate	No data available
tetrasodium ethylene diamine tetraacetate	No data available
alkyldimethylbenzylammoniumchloride	No data available

Ingredient(s)	Affected organ(s)
alkyl alcohol ethoxylate	No data available
tetrasodium ethylene diamine tetraacetate	Not applicable
alkyldimethylbenzylammoniumchloride	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:

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
alkyldimethylbenzylammoniumchloride	LC_{50}	> 0.1-1	*Fish*	Method not given	96

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}	> 100	*Daphnia magna Straus*	DIN 38412, Part 11	48
alkyldimethylbenzylammoniumchloride	EC_{50}	0.02	*Daphnia*	Method not given	48

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
alkyldimethylbenzylammoniumchloride	EC_{50}	0.06	*Pseudokirchner*	OECD 201 (EU C.3)	96

			iella subcapitata		

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (days)
alkyl alcohol ethoxylate		No data available			-
tetrasodium ethylene diamine tetraacetate		No data available			-
alkyldimethylbenzylammoniumchloride		No data available			-

Ingredient(s)	Endpoint	Value (mg/l)	Inoculum	Method	Exposure time
alkyl alcohol ethoxylate	EC_{50}	> 140	*Bacteria*	Method not given	3 hour(s)
tetrasodium ethylene diamine tetraacetate	EC_{20}	> 500	*Activated sludge*	OECD 209	0.5 hour(s)
alkyldimethylbenzylammoniumchloride	EC_{20}	10	*Activated sludge*	OECD 209	0.5 hour(s)

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
alkyl alcohol ethoxylate	EC_{10}	8.983	*Not specified*	Method not given	21 day(s)	
tetrasodium ethylene diamine tetraacetate	NOEC	>= 36.9	*Brachydanio rerio*	OECD 210	35 day(s)	
alkyldimethylbenzylammoniumchloride		No data available				

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)	
alkyldimethylbenzylammoniumchloride		No data available				

Ingredient(s)	Endpoint	Value (mg/kg dw sediment)	Species	Method	Exposure time (days)	Effects observed
alkyl alcohol ethoxylate		No data available			-	
tetrasodium ethylene diamine tetraacetate		No data available			-	
alkyldimethylbenzylammoniumchloride		No data available			-	

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
alkyl alcohol ethoxylate		No data available			-	
tetrasodium ethylene diamine tetraacetate	LD_{50}	156	*Eisenia fetida*	OECD 207	14	
alkyldimethylbenzylammoniumchloride		No data available			-	

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
alkyl alcohol ethoxylate		No data available			-	
tetrasodium ethylene diamine tetraacetate	NOEC	0.25 - 1.25			21	
alkyldimethylbenzylammoniumchloride		No data available			-	

Ingredient(s)	Endpoint	Value	Species	Method	Exposure time (days)	Effects observed
alkyl alcohol ethoxylate		No data available			-	
tetrasodium ethylene diamine tetraacetate		No data available			-	
alkyldimethylbenzylammoniumchloride		No data available			-	

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

tetrasodium ethylene diamine tetraacetate		No data available			-	
alkyldimethylbenzylammoniumchloride		No data available			-	

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
alkyl alcohol ethoxylate		No data available			-	
tetrasodium ethylene diamine tetraacetate		No data available			-	
alkyldimethylbenzylammoniumchloride		No data available			-	

12.2 Persistence and degradability

Ingredient(s)	Inoculum	Analytical method	DT 50	Method	Evaluation
alkyl alcohol ethoxylate			60 % in 28 day(s)	Method not given	Readily biodegradable
tetrasodium ethylene diamine tetraacetate					Not readily biodegradable.
alkyldimethylbenzylammoniumchloride		Oxygen depletion	> 60%	Read across	Readily biodegradable

12.3 Bioaccumulative potential

Ingredient(s)	Value	Method	Evaluation	Remark
alkyl alcohol ethoxylate	3.11 - 4.19	Method not given	High potential for bioaccumulation	
tetrasodium ethylene diamine tetraacetate	-13	Method not given	No bioaccumulation expected	
alkyldimethylbenzylammoniumchloride	0.5 - 1.58	Method not given	No bioaccumulation expected	

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*	Method not given	Low potential for bioaccumulation	
alkyldimethylbenzylam moniumchloride	0.5		Method not given	No bioaccumulation expected	

12.4 Mobility in soil

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
tetrasodium ethylene diamine tetraacetate	No data available				Adsorption to solid soil phase is not expected
alkyldimethylbenzylammoniumchloride	No data available				

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

14.1 UN number: Non-dangerous goods
14.2 UN proper shipping name: Non-dangerous goods
14.3 Transport hazard class(es): Non-dangerous goods
Class: -
14.4 Packing group: Non-dangerous goods
14.5 Environmental hazards: Non-dangerous goods

14.6 Special precautions for user: Non-dangerous goods
14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code: Non-dangerous goods

SECTION 15: Regulatory information

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

EU regulations:
- Regulation (EC) No. 1907/2006 - REACH
- Regulation (EC) No 1272/2008 - CLP
- Regulation (EU) No 528/2012 on biocidal products
- Regulation (EC) No. 648/2004 - Detergents regulation

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

Ingredients according to EC Detergents Regulation 648/2004
phosphates, non-ionic surfactants 5 - 15 %
disinfectants, perfumes, Butylphenyl Methylpropional, Hexyl Cinnamal, Limonene, Citronellol

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

SDS code: MS1003506 **Version:** 01.1 **Revision:** 2018-01-25

Reason for revision:
This data sheet contains changes from the previous version in section(s):, 2, 3, 16

Classification procedure
The classification of the mixture is in general based on calculation methods using substance data, as required by Regulation (EC) No 1272/2008. If for certain classifications data on the mixture is available or for example bridging principles or weight of evidence can be used for classification, this will be indicated in the relevant sections of the Safety Data Sheet. See section 9 for physical chemical properties, section 11 for toxicological information and section 12 for ecological information.

Full text of the H and EUH phrases mentioned in section 3:
- H302 - Harmful if swallowed.
- 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.

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

End of Safety Data Sheet