

Safety Data Sheet

According to Regulation (EC) No 1907/2006

Shield Cleaner Disinfectant

Revision: 2021-09-26

Version: 01.2

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

1.1 Product identifier

Trade name: Shield Cleaner Disinfectant

UFI: PT43-80R6-F00K-4768

1.2 Relevant identified uses of the substance or mixture and uses advised against Product use: Hard surface cleaner. Surface disinfectant.

Uses advised against:

Surface disinfectant. for general surface disinfection. Uses other than those identified are not recommended.

SWED - Sector-specific worker exposure description : 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 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

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

Eye Irrit. 2 (H319) Aquatic Chronic 3 (H412)

2.2 Label elements



Signal word: Warning.

Hazard statements: H319 - Causes serious eye irritation.

H412 - Harmful to aquatic life with long lasting effects.

2.3 Other hazards No other hazards known.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Ingredient(s)	EC number	CAS number	REACH number	Classification	Notes	Weight percent
propan-2-ol	200-661-7	67-63-0	01-2119457558-25	Flam. Liq. 2 (H225) STOT SE 3 (H336) Eye Irrit. 2 (H319)		1-3
tetrapotassium pyrophosphate	230-785-7	7320-34-5	01-2119489369-18	Eye Irrit. 2 (H319)		1-3
alkyl alcohol ethoxylate	[4]	68439-46-3	[4]	Acute Tox. 4 (H302) Eye Dam. 1 (H318)		1-3
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 M=10 (H400) Aquatic Chronic 1 (H410)		0.1-1

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 measur	res
Inhalation	Get medical attention or advice if you feel unwell.
Skin contact:	Wash skin with plenty of lukewarm, gently flowing water. If skin irritation occurs: Get medical advice or attention.
Eye contact:	Hold eyelids apart and flush eyes with plenty of lukewarm water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If irritation occurs and persists, get medical attention.
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	l effects, both acute and delayed
Inhalation:	No known effects or symptoms in normal use.
Skin contact:	No known effects or symptoms in normal use.
Eve contact:	Causes severe irritation.

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.

No known effects or symptoms in normal use.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Ingestion:

Carbon dioxide. Dry powder. Water spray jet. Fight larger fires with water spray jet or alcohol-resistant foam.

5.2 Special hazards arising from the substance or mixture No special hazards known.

5.3 Advice for firefighters

As in any fire, wear self contained breathing apparatus and suitable protective clothing including gloves and eye/face protection.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

No special measures required.

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, 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. Do not mix with other products unless adviced by Diversey. Wash hands before breaks and at the end of workday. Avoid contact with 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:

Ingredient(s)	UK - Long term value(s)	UK - Short term value(s)
propan-2-ol	400 ppm 999 mg/m³	500 ppm 1250 mg/m³

Biological limit values, if available:

Recommended monitoring procedures, if available:

Additional exposure limits under the conditions of use, if available:

DNEL/DMEL and PNEC values

Human exposure

DNEL oral exposure - Consumer (mg/kg bw)

Ingredient(s)	Short term - Local	Short term - Systemic	Long term - Local	Long term - Systemic
	effects	effects	effects	effects
propan-2-ol	-	-	-	26
tetrapotassium pyrophosphate	-	-	-	-
alkyl alcohol ethoxylate	-	-	-	-
alkyldimethylbenzylammoniumchloride	-	-	-	3.4

DNEL 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)
propan-2-ol	No data available	-	No data available	888
tetrapotassium pyrophosphate	No data available	-	No data available	-
alkyl alcohol ethoxylate	-	-	-	-
alkyldimethylbenzylammoniumchloride	-	-	-	5.7

DNEL dermal exposure - Consumer

Ingredient(s)	Short term - Local effects	Short term - Systemic effects (mg/kg bw)	Long term - Local effects	Long term - Systemic effects (mg/kg bw)
propan-2-ol	No data available	-	-	319
tetrapotassium pyrophosphate	No data available	-	No data available	-
alkyl alcohol ethoxylate	-	-	-	-
alkyldimethylbenzylammoniumchloride	-	-	-	3.4

DNEL inhalatory exposure - Worker (mg/m ³)				
Ingredient(s)	Short term - Local	Short term - Systemic	Long term - Local	Long term - Systemic
,	effects	effects	effects	effects
propan-2-ol	-	-	-	500
tetrapotassium pyrophosphate	-	-	-	44.08

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

DNEL inhalatory exposure - Consumer (mg/m³)

Ingredient(s)	Short term - Local effects	Short term - Systemic effects	Long term - Local effects	Long term - Systemic effects
propan-2-ol	-	-	-	89
tetrapotassium pyrophosphate	-	-	-	10.87
alkyl alcohol ethoxylate	-	-	-	-
alkyldimethylbenzylammoniumchloride	-	-	-	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)
propan-2-ol	140.9	140.9	140.9	2251
tetrapotassium pyrophosphate	0.05	0.005	0.5	50
alkyl alcohol ethoxylate	-	-	-	-
alkyldimethylbenzylammoniumchloride	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)
propan-2-ol	552	552	28	-
tetrapotassium pyrophosphate	-	-	-	-
alkyl alcohol ethoxylate	-	-	-	-
alkyldimethylbenzylammoniumchloride	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 cont	rols:
Appropriate organisational co	ontrols:

Provide a good standard of general ventilation.

Avoid direct contact and/or splashes where possible. Train personnel. Users are advised to consider national Occupational Exposure Limits or other equivalent values, if available.

REACH use scenarios considered for the undiluted product:

	SWED - Sector-specific	LCS	PROC	Duration	ERC
	worker exposure			(min)	
	description				
Manual application by brushing, wiping or mopping	AISE_SWED_PW_10_1	PW	PROC 10	480	ERC8a
Trigger 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:

 Body protection:

 Body protection:

 Respiratory protection:

 Respiratory

 Respiratory

 Respiratory

 Respiratory

 Respiratory

 Respiratory

 Respiratory

 Respiratory

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 , from Colourless to Colourless Odour: Product specific

Odour threshold: Not applicable Melting point/freezing point (°C): Not determined Initial boiling point and boiling range (°C): Not determined

Not relevant to classification of this product See substance data

Substance data, boiling point

Ingredient(s)	Value (°C)	Method	Atmospheric pressure (hPa)
propan-2-ol	82	Method not given	1013
tetrapotassium pyrophosphate	No data available		
alkyl alcohol ethoxylate	> 232.2	Method not given	
alkyldimethylbenzylammoniumchloride	> 107	Method not given	

Flammability (solid, gas): Not applicable to liquids Flammability (liquid): Not flammable. Flash point (°C): > 35 °C Sustained combustion: The product does not sustain combustion (UN Manual of Tests and Criteria, section 32, L.2)

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

Substance data, flammability or explosive limits, if available:

Ingredient(s)	Lower limit	Upper limit
	(% vol)	(% vol)
propan-2-ol	2	13
alkyldimethylbenzylammoniumchloride	-	-

Autoignition temperature: Not determined Decomposition temperature: Not applicable. **pH:** > 11 (neat) Kinematic viscosity: Not determined Solubility in / Miscibility with Water: Fully miscible

Substance data, solubility in water

Ingredient(s)	Value (g/l)	Method	Temperature (°C)
propan-2-ol	Soluble	Method not given	
tetrapotassium pyrophosphate	1850	Method not given	20
alkyl alcohol ethoxylate	100 Soluble	Method not given	
alkyldimethylbenzylammoniumchloride	Soluble	Method not given	

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

Method / remark

See substance data

Substance data, vapour pressure

Vapour pressure: Not determined

Ingredient(s)	Value (Pa)	Method	Temperature (°C)
propan-2-ol	4200	Method not given	20
tetrapotassium pyrophosphate	No data available		
alkyl alcohol ethoxylate	< 10	Method not given	37.8
alkyldimethylbenzylammoniumchloride	2300	Method not given	20

Relative density: ≈ 1.01 (20 °C) Relative vapour density: No data available. Particle characteristics: No data available.

Method / remark

OECD 109 (EU A.3) 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. Vapours may form explosive mixtures with air. 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

Method / remark

closed cup Weight of evidence

See substance data

Method / remark

ISO 4316

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 toxicological effects

Mixture data:.

Relevant calculated ATE(s):

ATE - Oral (mg/kg): >2000

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

Acute toxicity Acute oral toxicity

Ingredient(s)	Endpoint	Value (mg/kg)	Species	Method	Exposure time (h)	ATE (mg/kg)
propan-2-ol	LD 50	5840	Rat	OECD 401 (EU B.1)		Not established
tetrapotassium pyrophosphate	LD 50	> 2000	Rat	Method not given		Not established
alkyl alcohol ethoxylate	LD 50	1400	Rat	Method not given		140000
alkyldimethylbenzylammoniumchloride	LD 50	304.5	Rat			120000

Acute dermal toxicity

Ingredient(s)	Endpoint	Value (mg/kg)	Species	Method	Exposure time (h)	ATE (mg/kg)
propan-2-ol	LD 50	> 2000	Rabbit	Method not given		Not established
tetrapotassium pyrophosphate	LD 50	> 2000	Rabbit	Method not given		Not established
alkyl alcohol ethoxylate	LD 50	2000 - 5000	Rat	Method not given		Not established
alkyldimethylbenzylammoniumchloride	LD 50	3412	Rabbit	Method not given		1.3e+006

Acute inhalative toxicity

Ingredient(s)	Endpoint	Value	Species	Method	Exposure
		(mg/l)			time (h)
propan-2-ol	LC 50	> 25 (vapour)	Rat	OECD 403 (EU B.2)	6
tetrapotassium pyrophosphate	LC 50	> 1.1	Rat	Method not given	4
alkyl alcohol ethoxylate		No data			
		available			
alkyldimethylbenzylammoniumchloride		No data			
		available			

Acute inhalative toxicity, continued

Ingredient(s)	ATE - inhalation, dust	ATE - inhalation, mist	ATE - inhalation,	ATE - inhalation, gas
	(mg/l)	(mg/l)	vapour (mg/l)	(mg/l)
propan-2-ol	Not established	Not established	Not established	Not established
tetrapotassium pyrophosphate	Not established	Not established	Not established	Not established
alkyl alcohol ethoxylate	Not established	Not established	Not established	Not established
alkyldimethylbenzylammoniumchloride	Not established	Not established	Not established	Not established

Irritation and corrosivity Skin irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
propan-2-ol	Not irritant	Rabbit	OECD 404 (EU B.4)	

tetrapotassium pyrophosphate	Not irritant		Method not given	
alkyl alcohol ethoxylate	Not irritant		Method not given	
alkyldimethylbenzylammoniumchloride	Corrosive	Rabbit	Method not given	

Eye irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
propan-2-ol	Irritant	Rabbit	OECD 405 (EU B.5)	
tetrapotassium pyrophosphate	Irritant		Method not given	
alkyl alcohol ethoxylate	Severe damage	Rabbit	Method not given	
alkyldimethylbenzylammoniumchloride	Severe damage		Method not given	

Respiratory tract irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
propan-2-ol	No data available			
tetrapotassium pyrophosphate	No data available			
alkyl alcohol ethoxylate	No data available			
alkyldimethylbenzylammoniumchloride	No data available			

Sensitisation Sensitisation by skin contact

Sensitisation by skill contact				
Ingredient(s)	Result	Species	Method	Exposure time (h)
propan-2-ol	Not sensitising	Guinea pig	OECD 406 (EU B.6) /	
			Buehler test	
tetrapotassium pyrophosphate	Not sensitising		Method not given	
alkyl alcohol ethoxylate	Not sensitising	Guinea pig	Method not given	
alkyldimethylbenzylammoniumchloride	Not sensitising	Guinea pig	OECD 406 (EU B.6) /	
			Buehler test	

Sensitisation by inhalation

Ingredient(s)	Result	Species	Method	Exposure time
propan-2-ol	No data available			
tetrapotassium pyrophosphate	No data available			
alkyl alcohol ethoxylate	No data available			
alkyldimethylbenzylammoniumchloride	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)
propan-2-ol	No evidence for mutagenicity, negative test results No evidence of genotoxicity, negative test results		No evidence of genotoxicity, negative test results	OECD 474 (EU B.12)
tetrapotassium pyrophosphate	No data available		No data available	
alkyl alcohol ethoxylate	No evidence for mutagenicity, negative test results	OECD 473	No data available	
alkyldimethylbenzylammoniumchloride	test results	OECD 471 (EU B.12/13) OECD 476 OECD 473	test results	OECD 474 (EU B.12)

Carcinogenicity

Ingredient(s)	Effect
propan-2-ol	No evidence for carcinogenicity, negative test results
tetrapotassium pyrophosphate	No data available
alkyl alcohol ethoxylate	No evidence for carcinogenicity, negative test results
alkyldimethylbenzylammoniumchloride	No data available

Toxicity for reproduction

Ingredient(s)	Endpoint	Specific effect	Value (mg/kg bw/d)	Species	Method	Exposure time	Remarks and other effects reported
propan-2-ol			No data				
			available				
tetrapotassium			No data				
pyrophosphate			available				
alkyl alcohol ethoxylate	NOAEL		> 250	Rat	Not known		No effects on fertility No
							developmental toxicity
alkyldimethylbenzylam			No data				
moniumchloride			available				

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
propan-2-ol		No data available				
tetrapotassium pyrophosphate	NOAEL	No data available	Rat	OECD 408 (EU B.26)	90 days	
alkyl alcohol ethoxylate	NOAEL	80 - 400		Method not given		
alkyldimethylbenzylammoniumchloride		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
propan-2-ol		No data available				
tetrapotassium pyrophosphate		No data available				
alkyl alcohol ethoxylate	NOAEL	80		OECD 411 (EU B.28)	90	
alkyldimethylbenzylammoniumchloride		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
propan-2-ol		No data available				
tetrapotassium pyrophosphate		No data available				
alkyl alcohol ethoxylate		No data available				
alkyldimethylbenzylammoniumchloride		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
propan-2-ol			No data available					
tetrapotassium pyrophosphate			No data available					
alkyl alcohol ethoxylate			No data available					
alkyldimethylbenzylam moniumchloride			No data available					

STOT-single exposure

Ingredient(s)	Affected organ(s)
propan-2-ol	Central nervous system
tetrapotassium pyrophosphate	No data available
alkyl alcohol ethoxylate	No data available
alkyldimethylbenzylammoniumchloride	No data available

STOT-repeated exposure

Ingredient(s)	Affected organ(s)
propan-2-ol	No data available
tetrapotassium pyrophosphate	No data available
alkyl alcohol ethoxylate	No data available
alkyldimethylbenzylammoniumchloride	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

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
propan-2-ol	LC 50	> 100	Pimephales promelas	Method not given	48
tetrapotassium pyrophosphate	LC 50	> 100	Oncorhynchus mykiss	OECD 203 (EU C.1)	96
alkyl alcohol ethoxylate	LC 50	5 - 7	Fish	92/69/EEC, C1, semi-static	96
alkyldimethylbenzylammoniumchloride	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)
propan-2-ol	EC 50	> 100	Daphnia magna Straus	Method not given	48
tetrapotassium pyrophosphate	EC 50	> 100	Daphnia magna Straus	OECD 202 (EU C.2)	48
alkyl alcohol ethoxylate	EC 50	5.3	Daphnia	92/69/EEC	48
alkyldimethylbenzylammoniumchloride	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)
propan-2-ol	EC 50	> 100	Scenedesmus quadricauda	Method not given	72
tetrapotassium pyrophosphate		No data available			
alkyl alcohol ethoxylate	EC 50	1.4 - 47	Not specified	92/69/EEC	72
alkyldimethylbenzylammoniumchloride	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)
propan-2-ol		No data available			
tetrapotassium pyrophosphate		No data available			
alkyl alcohol ethoxylate		No data available			
alkyldimethylbenzylammoniumchloride		No data available			

Impac	: on	sewage	plant	s -	toxicit	y to	bact	eria	3	
										_

Ingredient(s)	Endpoint	Value (mg/l)	Inoculum	Method	Exposure time
propan-2-ol	EC 50	> 1000	Activated sludge	Method not given	
tetrapotassium pyrophosphate		No data available			
alkyl alcohol ethoxylate	EC 50	> 140	Bacteria	Method not given	3 hour(s)
alkyldimethylbenzylammoniumchloride	EC 20	5	Activated sludge	OECD 209	0.5 hour(s)

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

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
propan-2-ol		No data available				
tetrapotassium pyrophosphate		No data available				
alkyl alcohol ethoxylate	EC 10	8.983	Not specified	Method not	21 day(s)	

		given	
alkyldimethylbenzylammoniumchloride	No data		
	available		

Aquatic long-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
propan-2-ol		No data available				
tetrapotassium pyrophosphate		No data available				
alkyl alcohol ethoxylate	EC 10	2.579	Daphnia sp.	Method not given	21 day(s)	
alkyldimethylbenzylammoniumchloride	NOEC	0.025	Daphnia magna	OECD 211	21 day(s)	

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

Ingredient(s)	Endpoint	Value (mg/kg dw sediment)	Species	Method	Exposure time (days)	Effects observed
propan-2-ol		No data available				
tetrapotassium pyrophosphate		No data available				
alkyl alcohol ethoxylate		No data available				
alkyldimethylbenzylammoniumchloride		No data available				

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

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
propan-2-ol		No data available				
tetrapotassium pyrophosphate		No data available				
alkyldimethylbenzylammoniumchloride		No data available				

Terrestrial toxicity - plants, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw	Species	Method	Exposure time (days)	Effects observed
		soil)				
propan-2-ol		No data				
		available				
tetrapotassium pyrophosphate		No data				
		available				
alkyldimethylbenzylammoniumchloride		No data				
		available				

Terrestrial toxicity - birds, if available:

Ingredient(s)	Endpoint	Value	Species	Method	Exposure	Effects observed
					time (days)	
propan-2-ol		No data				
		available				
tetrapotassium pyrophosphate		No data				
		available				
alkyldimethylbenzylammoniumchloride		No data				
		available				

Terrestrial toxicity - beneficial insects, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
propan-2-ol		No data available				
tetrapotassium pyrophosphate		No data available				
alkyldimethylbenzylammoniumchloride		No data available				

Terrestrial toxicity - soil bacteria, if available:						
Ingredient(s)	Endpoint	Value (mg/kg dw	Species	Method	Exposure time (days)	Effects observed

	soil)		
propan-2-ol	No data		
	available		
tetrapotassium pyrophosphate	No data		
	available		
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
propan-2-ol	No data available			
tetrapotassium pyrophosphate	No data available			
alkyldimethylbenzylammoniumchloride	No data available			

Abiotic degradation - hydrolysis, if available:

Ingredient(s)	Half-life time in fresh	Method	Evaluation	Remark
	water			
propan-2-ol	No data available			
tetrapotassium pyrophosphate	No data available			
alkyldimethylbenzylammoniumchloride	No data available			

Abiotic degradation - other processes, if available:

Ingredient(s)	Туре	Half-life time	Method	Evaluation	Remark
propan-2-ol		No data available			
tetrapotassium pyrophosphate		No data available			
alkyldimethylbenzylam moniumchloride		No data available			

Biodegradation

Ready biodegradability - aerobic conditions

Ingredient(s)	Inoculum	Analytical method	DT 50	Method	Evaluation
propan-2-ol			95 % in 21 day(s)	OECD 301E	Readily biodegradable
tetrapotassium pyrophosphate					Not applicable (inorganic substance)
alkyl alcohol ethoxylate				OECD 301B	Readily biodegradable
alkyldimethylbenzylammoniumchloride		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
propan-2-ol					No data available
tetrapotassium pyrophosphate					No data available
alkyldimethylbenzylammoniumchloride					No data available

Degradation in relevant environmental compartments, if available:

Ingredient(s)	Medium & Type	Analytical method	DT 50	Method	Evaluation
propan-2-ol					No data available
tetrapotassium pyrophosphate					No data available
alkyldimethylbenzylammoniumchloride					No data available

12.3 Bioaccumulative potential

r artition coefficient n-octanol/water (log r				
Ingredient(s)	Value	Method	Evaluation	Remark
propan-2-ol	0.05	OECD 107	No bioaccumulation expected	
tetrapotassium pyrophosphate	-2	Method not given	No bioaccumulation expected	
alkyl alcohol ethoxylate	3.11 - 4.19	Method not given	High potential for bioaccumulation	
alkyldimethylbenzylammoniumchloride	2.88	OECD 107	No bioaccumulation expected	

Bioconcentration factor (BCF)

Ingredient(s)	Value	Species	Method	Evaluation	Remark
propan-2-ol	No data available				
tetrapotassium pyrophosphate	No data available				

alkyl alcohol ethoxylate	< 500	Method not given	High potential for bioaccumulation	
alkyldimethylbenzylam moniumchloride	0.5	Method not given	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
propan-2-ol	No data available				Potential for mobility in soil, soluble in water
tetrapotassium pyrophosphate	No data available				
alkyl alcohol ethoxylate	No data available				Potential for mobility in soil, soluble in water
alkyldimethylbenzylammoniumchloride	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:

European Waste Catalogue:

Empty packaging Recommendation: Suitable cleaning agents:

Dispose of observing national or local regulations. Water, if necessary with cleaning agent.

20 01 29* - detergents containing dangerous substances.

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.

SECTION 14: Transport information

Land transport (ADR/RID), 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

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 (EC) No. 648/2004 - Detergents regulation

Regulation (EU) No 528/2012 on biocidal products

• substances identified as having endocrine disrupting properties in accordance with the criteria set out in Delegated Regulation (EU) 2017/2100 or Regulation (EU) 2018/605

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, cationic surfactants perfumes, Hexyl Cinnamal

< 5 %

The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No. 648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

Seveso - Classification: Not classified

15.2 Chemical safety assessment

A chemical safety assessment has not been carried out on the mixture

SECTION 16: Other information

The information in this document is based on our best present knowledge. However, it does not constitute a guarantee for any specific product features and does not establish a legally binding contract

SDS code: MS1003504

Version: 01.2

Revision: 2021-09-26

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):, 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.

Full text of the H and EUH phrases mentioned in section 3:

- H225 Highly flammable liquid and vapour.H302 Harmful if swallowed.
- H312 Harmful in contact with skin.
- H314 Causes severe skin burns and eye damage.
- H318 Causes serious eye damage.
- · H319 Causes serious eye irritation. · H336 - May cause drowsiness or dizziness.
- 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

- ATE Acute Toxicity Estimate
- DNEL Derived No Effect Limit
- EC50 effective concentration, 50% ERC Environmental release categories
- EUH CLP Specific hazard statement
- LC50 Lethal Concentration, 50% / Median Lethal Concentration
- · LCS Life cycle stage
- LD50 Lethal Dose, 50% / Median Lethal dose
- · NOAEL No observed adverse effect level
- NOEL No observed effect level
- OECD Organization 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

End of Safety Data Sheet