



## Shield Cleaner Disinfectant

Revision: 2019-02-07

Version: 01.1

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

#### 1.1 Product identifier

Trade name: Shield Cleaner Disinfectant

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

##### Identified uses:

For professional use only.

AISE-P301 - General purpose cleaner. Manual process

AISE-P302 - General purpose cleaner. Spray and wipe manual process

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 Hygiene Sales Limited

Jamestown Road, Finglas, Dublin 11, Ireland

Tel: 01 8081808 (9am - 5pm Mon-Fri)

Email: dublin.orders@diverseym.com

#### 1.4 Emergency telephone number

Seek medical advice (show the label or safety data sheet where possible)

National Poisons Information Centre

Tel: 01 809 2166. (8.00 a.m. to 10.00 p.m. 7 days a week)

Tel: 01 809 2566 (health care professionals)

### 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

### 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

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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	No data available	Skin Corr. 1B (H314) Acute Tox. 4 (H302) Acute Tox. 4 (H312) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	0.1-1

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

[1] Exempted: ionic mixture. See Regulation (EC) No 1907/2006, Annex V, paragraph 3 and 4. This salt is potentially present, based on calculation, and included for classification and labelling purposes only. Each starting material of the ionic mixture is registered, as required.

[2] Exempted: included in Annex IV of Regulation (EC) No 1907/2006.

[3] Exempted: Annex V of Regulation (EC) No 1907/2006.

[4] Exempted: polymer. See Article 2(9) of Regulation (EC) No 1907/2006.

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

<b>Inhalation:</b>	Get medical attention or advice if you feel unwell.
<b>Skin contact:</b>	Wash skin with plenty of lukewarm, gently flowing water. If skin irritation occurs: Get medical advice or attention.
<b>Eye contact:</b>	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.
<b>Ingestion:</b>	Immediately drink 1 glass of water. Never give anything by mouth to an unconscious person. Get medical attention or advice if you feel unwell.
<b>Self-protection of first aider:</b>	Consider personal protective equipment as indicated in subsection 8.2.

### 4.2 Most important symptoms and effects, both acute and delayed

<b>Inhalation:</b>	No known effects or symptoms in normal use.
<b>Skin contact:</b>	No known effects or symptoms in normal use.
<b>Eye contact:</b>	Causes severe irritation.
<b>Ingestion:</b>	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

No special measures required.

### 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:

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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 advised 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. Use personal protective equipment as required. 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 packaging. 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)	Long term value(s)	Short term value(s)
propan-2-ol	200 ppm	400 ppm

Ingredient(s)	Short term - Local effects	Short term - Systemic effects	Long term - Local effects	Long term - Systemic effects
propan-2-ol	-	-	-	26
tetrapotassium pyrophosphate	-	-	-	-
alkyl alcohol ethoxylate	-	-	-	-
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)
propan-2-ol	No data available	-	No data available	888
tetrapotassium pyrophosphate	No data available	-	No data available	-
alkyl alcohol ethoxylate	-	-	-	-
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)
propan-2-ol	No data available	-	-	319
tetrapotassium pyrophosphate	No data available	-	No data available	-
alkyl alcohol ethoxylate	-	-	-	-
alkyldimethylbenzylammoniumchloride	-	-	-	3.4

Ingredient(s)	Short term - Local effects	Short term - Systemic effects	Long term - Local effects	Long term - Systemic effects
propan-2-ol	-	-	-	500
tetrapotassium pyrophosphate	-	-	-	44.08
alkyl alcohol ethoxylate	-	-	-	-
alkyldimethylbenzylammoniumchloride	-	-	-	3.96

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

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

Ingredient(s)	Sediment, freshwater (mg/kg)	Sediment, marine (mg/kg)	Soil (mg/kg)	Air (mg/m <sup>3</sup> )
propan-2-ol	552	552	28	-
tetrapotassium pyrophosphate	-	-	-	-
alkyl alcohol ethoxylate	-	-	-	-
alkyldimethylbenzylammoniumchloride	12.27	13.09	7	-

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## 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:

- Appropriate engineering controls:** Provide a good standard of general ventilation. No special requirements under normal use conditions.
- Appropriate organisational controls:** Avoid direct contact and/or splashes where possible. Train personnel.
- Personal protective equipment**
- Eye / face protection:** Safety glasses are not normally required. However, their use is recommended in those cases where splashes may occur when handling the product (EN 166).
- 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:** Respiratory protection is not normally required. However, inhalation of vapour, spray, gas or aerosols should be avoided.
- 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
<b>Physical State:</b> Liquid	
<b>Colour:</b> Clear, Colourless	
<b>Odour:</b> Slightly perfumed	
<b>Odour threshold:</b> Not applicable	
<b>pH:</b> ≈ 12 (neat)	ISO 4316
<b>Melting point/freezing point (°C):</b> Not determined	Not relevant to classification of this product
<b>Initial boiling point and boiling range (°C):</b> Not determined	See substance data

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	

<b>Flammability (liquid):</b> Not flammable.	
<b>Flash point (°C):</b> Not applicable.	
<b>Sustained combustion:</b> Not applicable. (UN Manual of Tests and Criteria, section 32, L.2)	
<b>Evaporation rate:</b> Not determined	Not relevant to classification of this product
<b>Flammability (solid, gas):</b> Not applicable to liquids	
<b>Upper/lower flammability limit (%):</b> Not determined	See substance data

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

**Vapour pressure:** Not determined See substance data

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

<b>Vapour density:</b> Not determined	Not relevant to classification of this product
<b>Relative density:</b> ≈ 1.01 (20 °C)	OECD 109 (EU A.3)
<b>Solubility in / Miscibility with Water:</b> Fully miscible	

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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	

**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

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

Ingredient(s)	Endpoint	Value (mg/kg)	Species	Method	Exposure time (h)
propan-2-ol	LD <sub>50</sub>	3570	Rat	Method not given	
tetrapotassium pyrophosphate	LD <sub>50</sub>	> 2000	Rat	Method not given	
alkyl alcohol ethoxylate	LD <sub>50</sub>	300 - 2000		Method not given	
alkyldimethylbenzylammoniumchloride	LD <sub>50</sub>	398	Rat		

Ingredient(s)	Endpoint	Value (mg/kg)	Species	Method	Exposure time (h)
propan-2-ol	LD <sub>50</sub>	> 2000	Rabbit	Method not given	
tetrapotassium pyrophosphate	LD <sub>50</sub>	> 2000	Rabbit	Method not given	
alkyl alcohol ethoxylate	LD <sub>50</sub>	2000 - 5000	Rat	Method not given	
alkyldimethylbenzylammoniumchloride	LD <sub>50</sub>	3412	Rabbit	Method not given	

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

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		available			
alkyldimethylbenzylammoniumchloride		No data available			

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	

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	

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			

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	

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			

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	OECD 471 (EU B.12/13)	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	No evidence of genotoxicity, negative test results	OECD 471 (EU B.12/13) OECD 476 OECD 473	No evidence of genotoxicity, negative test results	OECD 474 (EU B.12)

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

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 pyrophosphate			No data available				
alkyl alcohol ethoxylate	NOAEL		> 250	Rat	Not known		No effects on fertility No developmental toxicity
alkyldimethylbenzylammoniumchloride			No data available				

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		

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				given		
alkyldimethylbenzylammoniumchloride		No data available				

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				

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				

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					
alkyldimethylbenzylammoniumchloride			No data available					

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

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. 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)
propan-2-ol	LC <sub>50</sub>	> 100	<i>Pimephales promelas</i>	Method not given	48
tetrapotassium pyrophosphate	LC <sub>50</sub>	> 100	<i>Oncorhynchus mykiss</i>	OECD 203 (EU C.1)	96
alkyl alcohol ethoxylate	LC <sub>50</sub>	5 - 7	<i>Fish</i>	92/69/EEC, C1, semi-static	96
alkyldimethylbenzylammoniumchloride	LC <sub>50</sub>	0.515	<i>Fish</i>	Method not given	96

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
propan-2-ol	EC <sub>50</sub>	> 100	<i>Daphnia</i>	Method not given	48

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			<i>magna Straus</i>		
tetrapotassium pyrophosphate	EC <sub>50</sub>	> 100	<i>Daphnia magna Straus</i>	OECD 202 (EU C.2)	48
alkyl alcohol ethoxylate	EC <sub>50</sub>	5.3	<i>Daphnia</i>	92/69/EEC	48
alkyldimethylbenzylammoniumchloride	EC <sub>50</sub>	0.016	<i>Daphnia</i>	Method not given	48

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
propan-2-ol	EC <sub>50</sub>	> 100	<i>Scenedesmus quadricauda</i>	Method not given	72
tetrapotassium pyrophosphate		No data available			-
alkyl alcohol ethoxylate	EC <sub>50</sub>	1.4 - 47	<i>Not specified</i>	92/69/EEC	72
alkyldimethylbenzylammoniumchloride	EC <sub>50</sub>	0.02	<i>Selenastrum capricornutum</i>	OECD 201 (EU C.3)	72

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			-

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

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 <sub>10</sub>	8.983	<i>Not specified</i>	Method not given	21 day(s)	
alkyldimethylbenzylammoniumchloride		No data available				

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 <sub>10</sub>	2.579	<i>Daphnia sp.</i>	Method not given	21 day(s)	
alkyldimethylbenzylammoniumchloride	NOEC	0.025	<i>Daphnia magna</i>	OECD 211	21 day(s)	

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			-	

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			-	
alkyl alcohol ethoxylate		No data available			-	

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alkyldimethylbenzylammoniumchloride		No data available			-	
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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			-	
alkyl alcohol ethoxylate		No data available			-	
alkyldimethylbenzylammoniumchloride		No data available			-	

Ingredient(s)	Endpoint	Value	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			-	

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			-	
alkyl alcohol ethoxylate		No data available			-	
alkyldimethylbenzylammoniumchloride		No data 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			-	
alkyl alcohol ethoxylate		No data available			-	
alkyldimethylbenzylammoniumchloride		No data available			-	

## 12.2 Persistence and degradability

Ingredient(s)	Inoculum	Analytical method	DT <sub>50</sub>	Method	Evaluation
propan-2-ol			95 % in 21 day(s)	OECD 301E	Readily biodegradable
tetrapotassium pyrophosphate					Not applicable (inorganic substance)
alkyl alcohol ethoxylate			60 % in 28 day(s)	Read across	Readily biodegradable
alkyldimethylbenzylammoniumchloride		Oxygen depletion	> 60%	Read across	Readily biodegradable

## 12.3 Bioaccumulative potential

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	

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	0.5		Method not given	No bioaccumulation expected	

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moniumchloride					
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**12.4 Mobility in soil**

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				

**12.6 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

**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.

UFI: PT43-80R6-F00K-4768

**Ingredients according to EC Detergents Regulation 648/2004**

phosphates, non-ionic surfactants

< 5 %

disinfectants, perfumes, Butylphenyl Methylpropional, Hexyl Cinnamal

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:** MS1003504

**Version:** 01.1

**Revision:** 2019-02-07

**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

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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
- 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**