Safety Data Sheet

According to Regulation (EC) No 1907/2006

Room Care R6

Revision: 2020-03-01 **Version:** 01.0

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

1.1 Product identifier
Trade name: Room Care R6

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
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
Seek medical advice (show the label or safety data sheet where possible)
For medical or environmental emergency only:
call 0800 052 0185

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture
Skin Irrit. 2 (H315)
Eye Irrit. 2 (H319)
Aquatic Chronic 3 (H412)
Met. Corr. 1 (H290)

2.2 Label elements

Signal word: Warning.

Hazard statements:
H315 + H319 - Causes skin and serious eye irritation.
H412 - Harmful to aquatic life with long lasting effects.
H290 - May be corrosive to metals.

Precautionary statements:
P264 - Wash face, hands and any exposed skin thoroughly after handling.

2.3 Other hazards
No other hazards known. The product does not meet the criteria for PBT or vPvB in accordance with Regulation (EC) No 1907/2006, Annex XIII.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Ingredient(s)	EC number	CAS number	REACH number	Classification	Notes	Weight percent
hydrochloric acid	231-595-7	7647-01-0	01-2119484862-27	Skin Corr. 1B (H314)		3-10

				STOT SE 3 (H335) Eye Dam. 1 (H318) Met. Corr. 1 (H290)		
Quaternary ammonium compounds, (C16-18 and C18-unsaturated alkyl)trimethyl, chlorides	268-074-9	-	01-2119970170-45	Acute Tox. 3 (H311) Skin Corr. 1C (H314) Acute Tox. 4 (H302) Eye Dam. 1 (H318) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)		1-3
propane-1,2-diol	200-338-0	57-55-6	01-2119456809-23	Not classified as hazardous		1-3

Workplace exposure limit(s), if available, are listed in subsection 8.1.
For the full text of the H and EUH phrases mentioned in this Section, see Section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

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

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

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 eye irritation persists: Get medical advice or 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 effects, both acute and delayed

Inhalation: No known effects or symptoms in normal use.

Skin contact: Causes irritation.

Eye contact: Causes severe irritation.

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

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

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 face, hands and any exposed skin thoroughly after handling. Take off contaminated clothing. Wash contaminated clothing before reuse. 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.
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)
hydrochloric acid	1 ppm aerosol mist and gas 2 mg/m³ aerosol mist and gas	5 ppm aerosol mist and gas 8 mg/m³ aerosol mist and gas
propane-1,2-diol	150 ppm total particulates and vapour 474 mg/m³ total particulates and vapour 10 mg/m³ particulates	450 ppm total particulate and vapour 1422 mg/m³ total particulate and vapour 30 mg/m³ particulate

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 effects	Short term - Systemic effects	Long term - Local effects	Long term - Systemic effects
hydrochloric acid	-	-	-	-
Quaternary ammonium compounds, (C16-18 and C18-unsaturated alkyl)trimethyl, chlorides	No data available	No data available	No data available	2.83
propane-1,2-diol	-	-	-	-

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)
hydrochloric acid	-	-	-	-
Quaternary ammonium compounds, (C16-18 and C18-unsaturated alkyl)trimethyl, chlorides	No data available	No data available	No data available	4.7
propane-1,2-diol	No data available	-	No data available	-

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)
hydrochloric acid	-	-	-	-
Quaternary ammonium compounds, (C16-18 and C18-unsaturated alkyl)trimethyl, chlorides	No data available	No data available	No data available	2.83
propane-1,2-diol	No data available	-	No data available	-

DNEL inhalatory exposure - Worker (mg/m³)

Ingredient(s)	Short term - Local effects	Short term - Systemic effects	Long term - Local effects	Long term - Systemic effects
hydrochloric acid	15	-	8	-
Quaternary ammonium compounds, (C16-18 and C18-unsaturated alkyl)trimethyl, chlorides	No data available	No data available	No data available	3.32
propane-1,2-diol	-	-	10	168

DNEL inhalatory exposure - Consumer (mg/m³)

Ingredient(s)	Short term - Local effects	Short term - Systemic effects	Long term - Local effects	Long term - Systemic effects
hydrochloric acid	-	-	-	-
Quaternary ammonium compounds, (C16-18 and C18-unsaturated alkyl)trimethyl, chlorides	No data available	No data available	No data available	0.98
propane-1,2-diol	-	-	10	50

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)

hydrochloric acid	0.036	0.036	0.045	0.036
Quaternary ammonium compounds, (C16-18 and C18-unsaturated alkyl)trimethyl, chlorides	0.00068	0.000068	0	1.1
propane-1,2-diol	260	26	183	20000

Environmental exposure - PNEC, continued

Ingredient(s)	Sediment, freshwater (mg/kg)	Sediment, marine (mg/kg)	Soil (mg/kg)	Air (mg/m³)
hydrochloric acid	-	-	-	-
Quaternary ammonium compounds, (C16-18 and C18-unsaturated alkyl)trimethyl, chlorides	9.57	0.957	7	No data available
propane-1,2-diol	572	57.2	50	-

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: 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: Repeated or prolonged contact: Chemical-resistant protective gloves (EN 374). Verify instructions regarding permeability and breakthrough time, as provided by the gloves supplier. Consider specific local use conditions, such as risk of splashes, cuts, contact time and temperature.
Suggested gloves for prolonged contact: Material: butyl rubber Penetration time: ≥ 480 min Material thickness: ≥ 0.7 mm
Suggested gloves for protection against splashes: Material: nitrile rubber Penetration time: ≥ 30 min Material thickness: ≥ 0.4 mm
In consultation with the supplier of protective gloves a different type providing similar protection may be chosen.
Body protection: No special requirements under normal use conditions.
Respiratory protection: No special requirements under normal use conditions.

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

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 < 2 (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

Substance data, boiling point

Ingredient(s)	Value (°C)	Method	Atmospheric pressure (hPa)
hydrochloric acid	50-90	Method not given	
Quaternary ammonium compounds, (C16-18 and C18-unsaturated alkyl)trimethyl, chlorides	No data available		
propane-1,2-diol	185-190	Method not given	1013

Method / remark

Flammability (liquid): Not flammable.
Flash point (°C): > 60 °C
Sustained combustion: Not applicable.
(UN Manual of Tests and Criteria, section 32, L.2)
Evaporation rate: Not relevant for classification of this product.
Flammability (solid, gas): Not applicable to liquids
Upper/lower flammability limit (%): Not determined — See substance data

Substance data, flammability or explosive limits, if available:

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

propane-1,2-diol	2.6	12.6

Vapour pressure: Not determined

Method / remark
See substance data

Substance data, vapour pressure

Ingredient(s)	Value (Pa)	Method	Temperature (°C)
hydrochloric acid	1450-6100	Method not given	20
Quaternary ammonium compounds, (C16-18 and C18-unsaturated alkyl)trimethyl, chlorides	No data available		
propane-1,2-diol	18.6	Method not given	20

Vapour density: Not determined
Relative density: ≈ 1.036 (20 °C)
Solubility in / Miscibility with Water: Fully miscible

Method / remark
Not relevant to classification of this product
OECD 109 (EU A.3)

Substance data, solubility in water

Ingredient(s)	Value (g/l)	Method	Temperature (°C)
hydrochloric acid	500	Method not given	
Quaternary ammonium compounds, (C16-18 and C18-unsaturated alkyl)trimethyl, chlorides	No data available		
propane-1,2-diol	Soluble	Method not given	

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

Method / remark

Autoignition temperature: Not determined
Decomposition temperature: Not applicable.
Viscosity: ≈ 92 mPa.s (20 °C)
Explosive properties: Not explosive.
Oxidising properties: Not oxidising.

DM-006 Viscosity - Standard

9.2 Other information
Surface tension (N/m): Not determined
Corrosion to metals: Corrosive

Not relevant to classification of this product
Weight of evidence

Substance data, dissociation constant, if available:

SECTION 10: Stability and reactivity

10.1 Reactivity
No reactivity hazards known under normal storage and use conditions.

10.2 Chemical stability
Stable under normal storage and use conditions.

10.3 Possibility of hazardous reactions
No hazardous reactions known under normal storage and use conditions.

10.4 Conditions to avoid
None known under normal storage and use conditions.

10.5 Incompatible materials
Reacts with alkali and metals. Keep away from products containing chlorine-based bleaching agents or sulphites.

10.6 Hazardous decomposition products
None known under normal storage and use conditions.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Mixture data:.

Relevant calculated ATE(s):
ATE - Oral (mg/kg): >2000
ATE - Dermal (mg/kg): >2000

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

Acute toxicity

Acute oral toxicity

Ingredient(s)	Endpoint	Value (mg/kg)	Species	Method	Exposure time (h)
hydrochloric acid	LD_{50}	900	Rabbit	Method not given	
Quaternary ammonium compounds, (C16-18 and C18-unsaturated alkyl)trimethyl, chlorides	LD_{50}	630	Rat	OECD 401 (EU B.1)	
propane-1,2-diol	LD_{50}	> 10000	Rat	Method not given	

Acute dermal toxicity

Ingredient(s)	Endpoint	Value (mg/kg)	Species	Method	Exposure time (h)
hydrochloric acid	LD_{50}	> 5010	Rabbit	Method not given	
Quaternary ammonium compounds, (C16-18 and C18-unsaturated alkyl)trimethyl, chlorides	LD_{50}	582	Rabbit	OECD 402 (EU B.3)	
propane-1,2-diol	LD_{50}	> 2000	Rabbit	Method not given	

Acute inhalative toxicity

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
hydrochloric acid	LC_{50}	8 (mist)	Rat	Method not given	0.5
Quaternary ammonium compounds, (C16-18 and C18-unsaturated alkyl)trimethyl, chlorides		No data available			
propane-1,2-diol	LC_{50}	> 317 (mist) No mortality observed	Rabbit	Non guideline test	

Irritation and corrosivity

Skin irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
hydrochloric acid	Corrosive	Rabbit	Method not given	
Quaternary ammonium compounds, (C16-18 and C18-unsaturated alkyl)trimethyl, chlorides	Corrosive	Rabbit	OECD 404 (EU B.4)	1-4 hour(s)
propane-1,2-diol	Not irritant	Rabbit	OECD 404 (EU B.4)	

Eye irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
hydrochloric acid	Corrosive Severe damage	Rabbit	OECD 405 (EU B.5)	
Quaternary ammonium compounds, (C16-18 and C18-unsaturated alkyl)trimethyl, chlorides	Severe damage			
propane-1,2-diol	Not corrosive or irritant	Rabbit	OECD 405 (EU B.5)	

Respiratory tract irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
hydrochloric acid	Irritating to respiratory tract			
Quaternary ammonium compounds, (C16-18 and C18-unsaturated alkyl)trimethyl, chlorides	No data available			
propane-1,2-diol	No data available			

Sensitisation

Sensitisation by skin contact

Ingredient(s)	Result	Species	Method	Exposure time (h)
hydrochloric acid	Not sensitising	Guinea pig	OECD 406 (EU B.6) / GPMT	
Quaternary ammonium compounds, (C16-18 and C18-unsaturated alkyl)trimethyl, chlorides	Not sensitising	Guinea pig	OECD 406 (EU B.6) / Buehler test	
propane-1,2-diol	Not sensitising	Guinea pig	OECD 406 (EU B.6) / GPMT	

Sensitisation by inhalation

Ingredient(s)	Result	Species	Method	Exposure time
hydrochloric acid	No data available			
Quaternary ammonium compounds, (C16-18 and C18-unsaturated alkyl)trimethyl, chlorides	No data available			
propane-1,2-diol	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)
hydrochloric acid	No evidence for mutagenicity	OECD 471 (EU B.12/13)	No data available	
Quaternary ammonium compounds, (C16-18 and C18-unsaturated alkyl)trimethyl, chlorides	No data available		No data available	
propane-1,2-diol	No evidence for mutagenicity, negative test results	Method not given	No data available	

Carcinogenicity

Ingredient(s)	Effect
hydrochloric acid	No evidence for carcinogenicity, negative test results
Quaternary ammonium compounds, (C16-18 and C18-unsaturated alkyl)trimethyl, chlorides	No data available

propane-1,2-diol	No evidence for carcinogenicity, negative test results

Toxicity for reproduction

Ingredient(s)	Endpoint	Specific effect	Value (mg/kg bw/d)	Species	Method	Exposure time	Remarks and other effects reported
hydrochloric acid			No data available				No evidence for reproductive toxicity
Quaternary ammonium compounds, (C16-18 and C18-unsaturated alkyl)trimethyl, chlorides			No data available				
propane-1,2-diol			No data available				No evidence for reproductive toxicity

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
hydrochloric acid		No data available				
Quaternary ammonium compounds, (C16-18 and C18-unsaturated alkyl)trimethyl, chlorides		No data available				
propane-1,2-diol		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
hydrochloric acid		No data available				
Quaternary ammonium compounds, (C16-18 and C18-unsaturated alkyl)trimethyl, chlorides		No data available				
propane-1,2-diol		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
hydrochloric acid		No data available				
Quaternary ammonium compounds, (C16-18 and C18-unsaturated alkyl)trimethyl, chlorides		No data available				
propane-1,2-diol		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
hydrochloric acid			No data available					
Quaternary ammonium compounds, (C16-18 and C18-unsaturated alkyl)trimethyl, chlorides			No data available					
propane-1,2-diol			No data available					

STOT-single exposure

Ingredient(s)	Affected organ(s)
hydrochloric acid	No data available
Quaternary ammonium compounds, (C16-18 and C18-unsaturated alkyl)trimethyl, chlorides	No data available
propane-1,2-diol	No data available

STOT-repeated exposure

Ingredient(s)	Affected organ(s)
hydrochloric acid	No data available
Quaternary ammonium compounds, (C16-18 and C18-unsaturated alkyl)trimethyl, chlorides	No data available
propane-1,2-diol	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.

SECTION 12: Ecological information

12.1 Toxicity

No data is available on the mixture.

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

Aquatic short-term toxicity

Aquatic short-term toxicity - fish

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
hydrochloric acid	LC_{50}	7.45	*Various species*	Method not given	96
Quaternary ammonium compounds, (C16-18 and C18-unsaturated alkyl)trimethyl, chlorides	LC_{50}	> 0.1-1	*Oncorhynchus mykiss*	OECD 203 (EU C.1)	Nouryon ESDS 2019
propane-1,2-diol	LC_{50}	> 1000	*Fish*	Method not given	24

Aquatic short-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
hydrochloric acid	EC_{50}	0.492	*Daphnia magna Straus*	Method not given	48
Quaternary ammonium compounds, (C16-18 and C18-unsaturated alkyl)trimethyl, chlorides	EC_{50}	> 0.01-0.1	*Daphnia magna Straus*	OECD 202 (EU C.2)	48
propane-1,2-diol	EC_{50}	> 100	*Daphnia*	Method not given	48

Aquatic short-term toxicity - algae

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
hydrochloric acid	EC_{50}	0.78	*Pseudokirchneriella subcapitata*	Method not given	72
Quaternary ammonium compounds, (C16-18 and C18-unsaturated alkyl)trimethyl, chlorides	EC_{50}	> 0.01-0.1	*Pseudokirchneriella subcapitata*	OECD 201 (EU C.3)	72
propane-1,2-diol	EC_{50}	24200	*Desmodesmus subspicatus*	OECD 201 (EU C.3)	72

Aquatic short-term toxicity - marine species

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (days)
hydrochloric acid		No data available			-
Quaternary ammonium compounds, (C16-18 and C18-unsaturated alkyl)trimethyl, chlorides		No data available			
propane-1,2-diol		No data available			-

Impact on sewage plants - toxicity to bacteria

Ingredient(s)	Endpoint	Value (mg/l)	Inoculum	Method	Exposure time
hydrochloric acid		No data available			
Quaternary ammonium compounds, (C16-18 and C18-unsaturated alkyl)trimethyl, chlorides		No data available			
propane-1,2-diol	EC_{0}	> 20000	*Pseudomonas putida*	Method not given	18 hour(s)

Aquatic long-term toxicity

Aquatic long-term toxicity - fish

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
hydrochloric acid		No data available				
Quaternary ammonium compounds, (C16-18 and C18-unsaturated alkyl)trimethyl, chlorides		No data available				
propane-1,2-diol		No data available				

Aquatic long-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
hydrochloric acid		No data available				
Quaternary ammonium compounds, (C16-18 and C18-unsaturated alkyl)trimethyl, chlorides	NOEC	> 0.001-0.01	*Daphnia magna*	OECD 211	21 day(s)	
propane-1,2-diol	NOEC	13020	*Ceriodaphnia dubia*	Method not given	7 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
hydrochloric acid		No data available			-	
Quaternary ammonium compounds, (C16-18 and C18-unsaturated alkyl)trimethyl, chlorides		No data available				
propane-1,2-diol		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
hydrochloric acid		No data available			-	
propane-1,2-diol		No data available			-	

Terrestrial toxicity - plants, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
hydrochloric acid		No data available			-	
propane-1,2-diol		No data available			-	

Terrestrial toxicity - birds, if available:

Ingredient(s)	Endpoint	Value	Species	Method	Exposure time (days)	Effects observed
hydrochloric acid		No data available			-	
propane-1,2-diol		No data available			-	

Terrestrial toxicity - beneficial insects, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
hydrochloric acid		No data available			-	
propane-1,2-diol		No data available			-	

Terrestrial toxicity - soil bacteria, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
hydrochloric acid		No data available			-	
propane-1,2-diol		No data available			-	

12.2 Persistence and degradability

Abiotic degradation

Abiotic degradation - photodegradation in air, if available:

Abiotic degradation - hydrolysis, if available:

Abiotic degradation - other processes, if available:

Biodegradation

Ready biodegradability - aerobic conditions

Ingredient(s)	Inoculum	Analytical method	DT_{50}	Method	Evaluation
hydrochloric acid					Not applicable (inorganic substance)
Quaternary ammonium compounds, (C16-18 and C18-unsaturated alkyl)trimethyl, chlorides	Activated sludge, aerobe	Oxygen depletion	71 % in 28 day(s)	OECD 301D	Readily biodegradable
propane-1,2-diol			> 70 % in 28 day(s)	OECD 301A	Readily biodegradable

Ready biodegradability - anaerobic and marine conditions, if available:

Degradation in relevant environmental compartments, if available:

12.3 Bioaccumulative potential

Partition coefficient n-octanol/water (log Kow)

Ingredient(s)	Value	Method	Evaluation	Remark
hydrochloric acid	-0.25	Method not given	No bioaccumulation expected	
Quaternary ammonium compounds, (C16-18 and C18-unsaturated alkyl)trimethyl, chlorides	No data available			
propane-1,2-diol	-1.07	Method not given	No bioaccumulation expected	

Bioconcentration factor (BCF)

Ingredient(s)	Value	Species	Method	Evaluation	Remark
hydrochloric acid	No data available				
Quaternary ammonium compounds, (C16-18 and C18-unsaturated alkyl)trimethyl, chlorides	No data available				
propane-1,2-diol	No data available				

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
hydrochloric acid	No data available				High potential for mobility in soil
Quaternary ammonium compounds, (C16-18 and C18-unsaturated alkyl)trimethyl, chlorides	No data available				
propane-1,2-diol	No data available				Potential for mobility in soil, soluble in water

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 Other adverse effects
No other adverse effects known.

SECTION 13: Disposal considerations

13.1 Waste treatment methods
Waste from residues / unused products: The concentrated contents or contaminated packaging should be disposed of by a certified handler or according to the site permit. Release of waste to sewers is discouraged. The cleaned packaging material is suitable for energy recovery or recycling in line with local legislation.
European Waste Catalogue: 20 01 29* - detergents containing dangerous substances.

Empty packaging
Recommendation: Dispose of observing national or local regulations.
Suitable cleaning agents: Water, if necessary with cleaning agent.

SECTION 14: Transport information

Land transport (ADR/RID), Sea transport (IMDG), Air transport (ICAO-TI / IATA-DGR)
14.1 UN number: 1789
14.2 UN proper shipping name:
Hydrochloric acid , solution
14.3 Transport hazard class(es):
Transport hazard class (and subsidiary risks): 8
14.4 Packing group: III
14.5 Environmental hazards:
Environmentally hazardous: No
Marine pollutant: No
14.6 Special precautions for user: None known.
14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code: The product is not transported in bulk tankers.

Other relevant information:
ADR
Classification code: C1
Tunnel restriction code: E
Hazard identification number: 80
IMO/IMDG
EmS: F-A, S-B

The product has been classified, labelled and packaged in accordance with the requirements of ADR and the provisions of the IMDG Code
Transport regulations include special provisions for certain classes of dangerous goods packed in limited quantities.

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

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

UFI: REQ9-01N6-700P-70VE

Ingredients according to EC Detergents Regulation 648/2004

cationic surfactants	< 5 %
perfumes	

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

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: MS1004724 **Version:** 01.0 **Revision:** 2020-03-01

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:

- H226 - Flammable liquid and vapour.
- H290 - May be corrosive to metals.
- H302 - Harmful if swallowed.
- H304 - May be fatal if swallowed and enters airways.
- H311 - Toxic in contact with skin.
- H312 - Harmful in contact with skin.
- H314 - Causes severe skin burns and eye damage.
- H315 - Causes skin irritation.
- H317 - May cause an allergic skin reaction.
- H318 - Causes serious eye damage.
- H319 - Causes serious eye irritation.
- H320 - Causes eye irritation.
- H332 - Harmful if inhaled.
- H335 - May cause respiratory irritation.
- H400 - Very toxic to aquatic life.
- H410 - Very toxic to aquatic life with long lasting effects.
- H411 - Toxic to aquatic life with long lasting effects.
- H412 - Harmful to aquatic life with long lasting effects.

Abbreviations and acronyms:

- AISE - The international Association for Soaps, Detergents and Maintenance Products
- DNEL - Derived No Effect Limit
- EUH - CLP Specific hazard statement
- PBT - Persistent, Bioaccumulative and Toxic
- PNEC - Predicted No Effect Concentration
- REACH number - REACH registration number, without supplier specific part
- vPvB - very Persistent and very Bioaccumulative
- ATE - Acute Toxicity Estimate
- LD50 - Lethal Dose, 50% / Median Lethal dose
- LC50 - Lethal Concentration, 50% / Median Lethal Concentration
- EC50 - effective concentration, 50%
- NOEL - No observed effect level
- NOAEL - No observed adverse effect level
- OECD - Organization for Economic Cooperation and Development

End of Safety Data Sheet