



According to Regulation (EC) No 1907/2006

SURE™ Descaler

Revision: 2019-02-07 **Version:** 02.2

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

1.1 Product identifier

Trade name: SURE™ Descaler

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

Identified uses:

For professional use only.

AISE-P303 - Kitchen cleaner. Manual process

AISE-P304 - Kitchen cleaner. Spray and wipe manual process

AISE-P309 - Descaling agent. Dipping process

AISE-P308 - Descaling agent. 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@diversey.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)

2.2 Label elements



Signal word: Warning.

Hazard statements:

H319 - Causes serious eye irritation.

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
I-(+)-lactic acid	201-196-2	79-33-4	01-2119474164-39	Skin Irrit. 2 (H315) Eye Dam. 1 (H318)		3-10
citric acid	201-069-1	77-92-9	01-2119457026-42	Eye Irrit. 2A (H319)		3-10
alkyl polyglucoside	500-220-1	68515-73-1	01-2119488530-36	Eye Dam. 1 (H318)		1-3

SECTION 4: First aid measures

4.1 Description of first aid measures

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

Skin contact: Wash skin with plenty of lukewarm, gently flowing water. 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: 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:No known effects or symptoms in normal use.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. Dilute with plenty of water.

6.3 Methods and material for containment and cleaning up

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

6.4 Reference to other sections

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

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Measures to prevent fire and explosions:

No special precautions required.

Measures required to protect the environment:

For environmental exposure controls see subsection 8.2.

Advices on general occupational hygiene:

Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs. Do not mix with other products unless adviced by Diversey. Wash hands before breaks and at the end of workday. Wash face, hands and any exposed skin thoroughly after handling. Take off immediately all contaminated clothing. 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.

For conditions to avoid see subsection 10.4. For incompatible materials see subsection 10.5.

7.3 Specific end use(s)

No specific advice for end use available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters Workplace exposure limits

Air limit values, if available:

Biological limit values, if available:

Recommended monitoring procedures, if available:

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

DNEL/DMEL and **PNEC** values

Human exposure

	Ingredient(s)	Short term - Local effects	Short term - Systemic effects	Long term - Local effects	Long term - Systemic effects
	I-(+)-lactic acid	-	35.4	-	-
Γ	citric acid	-	-	-	-
Γ	alkyl polyglucoside	=	-	-	35.7

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)	
I-(+)-lactic acid	-	-	-	-	
citric acid	No data available	-	No data available	-	
alkyl polyglucoside	No data available	-	No data available	595000	

DNFL dermal exposure - Consumer

DIVEL definal exposure	Consumer				
Ingredient(s)		Short term - Local	Short term - Systemic	Long term - Local	Long term - Systemic
		effects	effects (mg/kg bw)	effects	effects (mg/kg bw)
	I-(+)-lactic acid	No data available	-	No data available	-
	citric acid	No data available	-	No data available	-
á	alkyl polyglucoside	No data available	-	No data available	357000

DNEL inhalatory exposure - Worker (mg/m3)

Brille initialatory exposure Worker (mg/m)					
Ingredient(s)	Short term - Local	Short term - Systemic	Long term - Local	Long term - Systemic	
	effects	effects	effects	effects	
I-(+)-lactic acid	-	-	-	-	
citric acid	-	-	-	-	
alkyl polyglucoside	=	-	-	420	

DNFL inhalatory exposure - Consumer (mg/m3)

Ingredient(s)	Short term - Local Short term - Systemic effects effects		Long term - Local effects	Long term - Systemic effects	
I-(+)-lactic acid	-	-	-	-	
citric acid	-	-	-	-	
alkyl polyglucoside	-	-	-	124	

Environmental exposure - PNEC

Ingredient(s)	Surface water, fresh (mg/l)	Surface water, marine (mg/l)	Intermittent (mg/l)	Sewage treatment plant (mg/l)
I-(+)-lactic acid	1.3	-	-	10
citric acid	0.44	0.044	-	> 1000
alkyl polyglucoside	0.176	0.0176	0.27	560

Environmental exposure - PNEC, continued

Ingredient(s)	Sediment, freshwater (mg/kg)	Sediment, marine (mg/kg)	Soil (mg/kg)	Air (mg/m³)
I-(+)-lactic acid	-	-	-	-
citric acid	34.6	3.46	33.1	-
alkyl polyglucoside	1.516	0.152	0.654	-

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:

Covering activities such as filling and transfer of product to application equipment, flasks or buckets

No special requirements under normal use conditions. Appropriate engineering controls:

Appropriate organisational controls: Avoid direct contact and/or splashes where possible. Train personnel.

Personal protective equipment

Safety glasses are not normally required. However, their use is recommended in those cases Eye / face protection:

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.

No special requirements under normal use conditions. **Body protection:** Respiratory protection: No special requirements under normal use conditions.

Environmental exposure controls: No special requirements under normal use conditions.

Recommended safety measures for handling the diluted product:

Recommended maximum concentration (%): 20

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

Appropriate organisational controls: Avoid direct contact and/or splashes where possible. Train personnel.

Personal protective equipment

Eye / face protection: No special requirements under normal use conditions.

Hand protection: Rinse and dry hands after use. For prolonged contact protection for the skin may be necessary.

Body protection: No special requirements under normal use conditions.

Respiratory protection is not normally required. However, inhalation of vapour, spray, gas or Respiratory protection:

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

Physical State: Liquid

Colour: Clear, Pale, from Yellow to Colourless

Odour: Product specific

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)
I-(+)-lactic acid	110-130	Method not given	1013
citric acid	No data available		
alkyl polyglucoside	> 100	Method not given	1013

Method / remark

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

Evaporation rate: Not determined

Flammability (solid, gas): Not applicable to liquids Upper/lower flammability limit (%): Not determined

Substance data, flammability or explosive limits, if available:

Not relevant to classification of this product

Method / remark

Vapour pressure: Not determined See substance data

Substance data, vapour pressure

Ingredient(s)	Value (Pa)	Method	Temperature (°C)
I-(+)-lactic acid	8.13	Method not given	25
citric acid	No data available		
alkyl polyglucoside	No data available		

Vapour density: Not determined

Relative density: ≈ 1.07 (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)
	I-(+)-lactic acid	Soluble		
ĺ	citric acid	1630	Method not given	
ſ	alkyl polyglucoside	Soluble	Method not given	20

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

Method / remark

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

Viscosity: ≈ 50 mPa.s (20 °C) Explosive properties: Not explosive. Oxidising properties: Not oxidising.

9.2 Other information

Surface tension (N/m): Not determined Corrosion to metals: Not corrosive

Not relevant to classification of this product

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. 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): >5000

Skin irritation and corrosivity

Result: Not corrosive or irritant **Method:** Weight of evidence **Eye irritation and corrosivity**

Result: Eye irritant 2 **Method:** Weight of evidence

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)
I-(+)-lactic acid	LD 50	3543	Rat	Method not given	
citric acid	LD 50	3000	Rat	Method not given	
alkyl polyglucoside	LD 50	> 2000	Rat	OECD 423 (EU B.1 tris)	

Acute dermal toxicity

Ingredient(s)	Endpoint	Value (mg/kg)	Species	Method	Exposure time (h)
I-(+)-lactic acid	LD 50	> 2000	Rabbit	EPA OPP 81-2	
citric acid	LD 50	> 2000	Rat	Method not given	
alkyl polyglucoside	LD 50	> 2000	Rabbit	OECD 402 (EU B.3)	

Acute inhalative toxicity

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
I-(+)-lactic acid	LC 50	(mist) > 7.94	Rat	OECD 403 (EU B.2)	4
citric acid		No data available			
alkyl polyglucoside		No data available			

Irritation and corrosivity

Skin irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
I-(+)-lactic acid	Irritant		OECD 404 (EU B.4)	
citric acid	Not irritant	Rabbit	OECD 404 (EU B.4)	
alkyl polyglucoside	Not irritant	Rabbit	OECD 404 (EU B.4)	

Eye irritation and corrosivity

Ingredient(s)	Result Species Method		Method	Exposure time
I-(+)-lactic acid	Severe damage		Method not given	
citric acid	Irritant	Rabbit	OECD 405 (EU B.5)	
alkyl polyglucoside	Severe damage	Rabbit	OECD 405 (EU B.5)	

Respiratory tract irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
I-(+)-lactic acid	No data available			
citric acid	No data available			
alkyl polyglucoside	No data available			

Sensitisation

Sensitisation by skin contact

Ingredient(s)	Result	Species	Method	Exposure time (h)
I-(+)-lactic acid	Not sensitising		Method not given	
citric acid	Not sensitising	Guinea pig	Method not given	
alkyl polyglucoside	Not sensitising	Guinea pig	OECD 406 (EU B.6) / Buehler test	

Sensitisation by inhalation

Ingredient(s)	Result	Species	Method	Exposure time
I-(+)-lactic acid	No data available			
citric acid	No data available			
alkyl polyglucoside	No data available			

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction) Mutagenicity

Ingredient(s)	Result (in-vitro)	Result (in-vitro) Method (in-vitro)		Method (in-vivo)
I-(+)-lactic acid	No data available		No evidence for genotoxicity	
citric acid	No data available		No evidence of genotoxicity, negative test results	Method not given
alkyl polyglucoside	No evidence for mutagenicity, negative test results	Read across	No data available	

Carcinogenicity

ear en reger new y	
Ingredient(s)	Effect
I-(+)-lactic acid	No data available
citric acid	No evidence for carcinogenicity, negative test results
alkyl polyglucoside	No evidence for carcinogenicity, weight-of-evidence

Toxicity for reproduction

Ingredient(s)	Endpoint	Specific effect	Value	Species	Method	Exposure	Remarks and other effects
			(mg/kg bw/d)			time	reported
I-(+)-lactic acid			No data				No known significant effects or
			available				critical hazards
citric acid			No data				No evidence for reproductive
			available				toxicity
alkyl polyglucoside			No data		OECD 416,		No evidence for reproductive
			available		(EU B.35),		toxicity
					oral		

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

Ingredient(s)	Endpoint	Endpoint Value Species		Method	Exposure	Specific effects and organs
		(mg/kg bw/d)			time (days)	affected

I-(+)-lactic acid		No data available				
citric acid		No data available				
alkyl polyglucoside	NOAEL	100	Rat	OECD 408 (EU B 26)	90	

Sub-chronic dermal toxicity

Ingredient(s)	Endpoint	Value	Species	Method	Exposure	Specific effects and organs
		(mg/kg bw/d)			time (days)	affected
I-(+)-lactic acid		No data				
		available				
citric acid		No data				
		available				
alkyl polyglucoside		No data				
		available				

Sub-chronic inhalation toxicity

Ingredient(s)	Endpoint	Value	Species	Method	Exposure	Specific effects and organs
		(mg/kg bw/d)			time (days)	affected
I-(+)-lactic acid		No data				
		available				
citric acid		No data				
		available				
alkyl polyglucoside		No data				
		available				

Chronic toxicity

Ingredient(s)	Exposure	Endpoint	Value	Species	Method	Exposure	Specific effects and	Remark
	route		(mg/kg bw/d)			time	organs affected	
I-(+)-lactic acid			No data					
			available					
citric acid			No data					
			available					
alkyl polyglucoside			No data					
			available					

STOT-single exposure

Ingredient(s)	Affected organ(s)
I-(+)-lactic acid	Not applicable
citric acid	No data available
alkyl polyglucoside	No data available

5 TO 1-repeated exposure	
Ingredient(s)	Affected organ(s)
I-(+)-lactic acid	Not applicable
citric acid	No data available
alkyl polyglucoside	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:

Aquatic short-term toxicity

Aquatic short-term toxicity - fish

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
I-(+)-lactic acid	LC 50	130	Oncorhynchus mykiss	Method not given	96
citric acid	LC 50	440	Leuciscus idus	Method not given	48
alkyl polyglucoside	LC 50	100.81	Brachydanio rerio	ISO 7346	96

Aquatic short-term toxicity - crustacea

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

I-(+)-lactic acid	EC 50	130	Daphnia	Method not given	48
			magna Straus		
citric acid	EC 50	1535	Daphnia	Method not given	24
			magna Straus		
alkyl polyglucoside	EC 50	> 100	Daphnia	OECD 202 (EU C.2)	48
			magna Straus		

Aquatic short-term toxicity - algae

Aduatic short-term toxicity - algae					
Ingredient(s)	Endpoint	Value	Species	Method	Exposure
		(mg/l)			time (h)
I-(+)-lactic acid	EC 50	2800	Pseudokirchner	Method not given	72
			iella		
			subcapitata		
citric acid	LC 50	425	Scenedesmus	Method not given	168
			quadricauda	· ·	
alkyl polyglucoside	EC 50	27.22	Desmodesmus	Method not given	72
			subspicatus	· ·	

Aquatic short-term toxicity - marine species

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (days)
I-(+)-lactic acid		No data			-
		available			
citric acid		No data			-
		available			
alkyl polyglucoside	EC 50	12.43	Skeletonema	Method not given	3
			costatum		

Ingredient(s)	Endpoint	Value (mg/l)	Inoculum	Method	Exposure time
I-(+)-lactic acid	EC 50	> 100	Activated sludge	Method not given	3 hour(s)
citric acid	EC 50	> 10000	Pseudomonas putida	Method not given	16 hour(s)
alkyl polyglucoside	EC 10	> 560	Pseudomonas putida	Method not given	6 hour(s)

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

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
l-(+)-lactic acid		No data available				
citric acid		No data available				
alkyl polyglucoside	NOEC	1	Brachydanio rerio	Method not	28 day(s)	

Aquatic long-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
I-(+)-lactic acid		No data				
		available				
citric acid		No data				
		available				
alkyl polyglucoside	NOEC	1	Daphnia	OECD 202	21 day(s)	
			magna			

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
I-(+)-lactic acid		No data available			-	
citric acid		No data available			-	
alkyl polyglucoside		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
I-(+)-lactic acid		No data available			-	
citric acid		No data available			-	
alkyl polyglucoside		No data available			-	

Terrestrial toxicity - plants, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
I-(+)-lactic acid		No data available			-	
citric acid		No data available			-	
alkyl polyglucoside		No data available			-	

Terrestrial toxicity - birds, if available:

Ingredient(s)	Endpoint	Value	Species	Method	Exposure time (days)	Effects observed
I-(+)-lactic acid		No data			-	
		available				
citric acid		No data			-	
		available				
alkyl polyglucoside		No data			-	
		available				

Terrestrial toxicity - beneficial insects, if available:

remedial texton, beneficial indecter in a random						
Ingredient(s)	Endpoint	Value	Species	Method	Exposure	Effects observed
3		(mg/kg dw			time (days)	
					lillic (days)	
		soil)				
I-(+)-lactic acid		No data			-	
()		available				
		avaliable				
citric acid		No data			-	
		available				
alkyl polyglucoside		No data			-	
7.75		available				

Terrestrial toxicity - soil bacteria, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
I-(+)-lactic acid		No data			-	
		available				
citric acid		No data			-	
		available				
alkyl polyglucoside		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
I-(+)-lactic acid	Activated sludge, aerobe		> 60%	· ·	Readily biodegradable, without 10 day window
citric acid			97 % in 28 day(s)	OECD 301B	Readily biodegradable
alkyl polyglucoside			59%	OECD 301E	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
I-(+)-lactic acid	-0.62	Method not given Not relevant, does not		
			bioaccumulate	
citric acid	-1.72		No bioaccumulation expected	
alkyl polyglucoside	0.07	Method not given	No bioaccumulation expected	

Bioconcentration factor (BCF)

Ingredient(s)	Value	Species	Method	Evaluation	Remark
I-(+)-lactic acid	No data available				
citric acid	No data available				
alkyl polyglucoside	< 1.77		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
I-(+)-lactic acid	No data available				Low potential for adsorption to soil
citric acid	No data available				Potential for mobility in soil, soluble in water
alkyl polyglucoside	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 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

Dispose of observing national or local regulations. Recommendation:

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: 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

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

UFI: R5N2-503X-Q00H-R34H

Ingredients according to EC Detergents Regulation 648/2004

non-ionic surfactants < 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.

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 quarantee for any specific product features and does not establish a legally binding contract

Version: 02.2 SDS code: MS1002678 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 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.

- H315 Causes skin irritation. H318 Causes serious eye damage. H319 Causes serious eye irritation.

Abbreviations and acronyms:

- AlSE 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