Safety Data Sheet

According to Regulation (EC) No 1907/2006

SURE™ Cleaner & Degreaser

Revision: 2018-01-25 **Version:** 05.0

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

1.1 Product identifier
Trade name: SURE™ Cleaner & Degreaser

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-P403 - Floor 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
For medical or environmental emergency only:
call 0800 052 0185

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture
Not classified as hazardous

2.2 Label elements
Hazard statements:
EUH210 - Safety data sheet available on request.

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
disodium disilicate	215-687-4	1344-09-8	01-2119448725-31	STOT SE 3 (H335) Skin Irrit. 2 (H315) Eye Dam. 1 (H318)		1-3
sodium hydroxide	215-185-5	1310-73-2	01-2119457892-27	Skin Corr. 1A (H314) Met. Corr. 1 (H290)		1-3
D-pentose, oligomeric, C5 alkyl glycosides	444-850-4	1235390-87-0	01-0000018776-57	Eye Irrit. 2 (H319)		1-3
C10-12 alkyl glycosides	Polymer*	1235552-50-7	[4]	Eye Dam. 1 (H318)		1-3
Poly(oxy-1,2-ethanediyl), .alpha.-(carboxymethyl)-.omega.-(dodecyloxy)-, sodium salt		33939-64-9	No data available	Skin Irrit. 2 (H315) Eye Dam. 1 (H318)		1-3

* Polymer.
Workplace exposure limit(s), if available, are listed in subsection 8.1.
[1] Exempted: ionic mixture. See Regulation (EC) No 1907/2006, Annex V, paragraph 3 and 4. This salt is potentially present, based on calculation, and included for classification and labelling purposes only. Each starting material of the ionic mixture is registered, as required.
[2] Exempted: included in Annex IV of Regulation (EC) No 1907/2006.
[3] Exempted: Annex V of Regulation (EC) No 1907/2006.
[4] Exempted: polymer. See Article 2(9) of Regulation (EC) No 1907/2006.
For the full text of the H and EUH phrases mentioned in this Section, see Section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

Inhalation:	Get medical attention or advice if you feel unwell.
Skin contact:	Wash skin with plenty of lukewarm, gently flowing water. If skin irritation occurs: Get medical advice or attention.
Eye contact:	Rinse cautiously with water for several minutes. 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 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:	No known effects or symptoms in normal use.
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.

7.2 Conditions for safe storage, including any incompatibilities
Store in accordance with local and national regulations. Keep only in original 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:

Ingredient(s)	UK - Long term value(s)	UK - Short term value(s)
sodium hydroxide		2 mg/m³

Biological limit values, 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
disodium disilicate	-	-	-	0.8
sodium hydroxide	-	-	-	-
D-pentose, oligomeric, C5 alkyl glycosides	No data available	No data available	No data available	No data available
C10-12 alkyl glycosides	No data available	No data available	No data available	No data available
Poly(oxy-1,2-ethanediyl), .alpha.-(carboxymethyl)-.omega.-(dodecyloxy)-, sodium salt	No data available	No data available	No data available	No data available

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)
disodium disilicate	No data available	-	No data available	1.59
sodium hydroxide	2 %	-	-	-
D-pentose, oligomeric, C5 alkyl glycosides	No data available	No data available	No data available	No data available
C10-12 alkyl glycosides	No data available	No data available	No data available	No data available
Poly(oxy-1,2-ethanediyl), .alpha.-(carboxymethyl)-.omega.-(dodecyloxy)-, sodium salt	No data available	No data available	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)
disodium disilicate	No data available	-	No data available	0.8
sodium hydroxide	2 %	-	-	-
D-pentose, oligomeric, C5 alkyl glycosides	No data available	No data available	No data available	No data available
C10-12 alkyl glycosides	No data available	No data available	No data available	No data available
Poly(oxy-1,2-ethanediyl), .alpha.-(carboxymethyl)-.omega.-(dodecyloxy)-, sodium salt	No data available	No data available	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
disodium disilicate	-	-	-	5.61
sodium hydroxide	-	-	1	-
D-pentose, oligomeric, C5 alkyl glycosides	No data available	No data available	No data available	No data available
C10-12 alkyl glycosides	No data available	No data available	No data available	No data available
Poly(oxy-1,2-ethanediyl), .alpha.-(carboxymethyl)-.omega.-(dodecyloxy)-, sodium salt	No data available	No data available	No data available	No data available

DNEL inhalatory exposure - Consumer (mg/m³)

Ingredient(s)	Short term - Local effects	Short term - Systemic effects	Long term - Local effects	Long term - Systemic effects
disodium disilicate	-	-	-	1.38
sodium hydroxide	-	-	1	-
D-pentose, oligomeric, C5 alkyl glycosides	No data available	No data available	No data available	No data available
C10-12 alkyl glycosides	No data available	No data available	No data available	No data available
Poly(oxy-1,2-ethanediyl), .alpha.-(carboxymethyl)-.omega.-(dodecyloxy)-, sodium salt	No data available	No data available	No data available	No data available

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)
disodium disilicate	7.5	1	7.5	348
sodium hydroxide	-	-	-	-
D-pentose, oligomeric, C5 alkyl glycosides	No data available	No data available	No data available	No data available
C10-12 alkyl glycosides	No data available	No data available	No data available	No data available
Poly(oxy-1,2-ethanediyl), .alpha.-(carboxymethyl)-.omega.-(dodecyloxy)-, sodium salt	No data available	No data available	No data available	No data available

Environmental exposure - PNEC, continued

Ingredient(s)	Sediment, freshwater (mg/kg)	Sediment, marine (mg/kg)	Soil (mg/kg)	Air (mg/m³)

disodium disilicate	-	-	-	-
sodium hydroxide	-	-	-	-
D-pentose, oligomeric, C5 alkyl glycosides	No data available	No data available	No data available	No data available
C10-12 alkyl glycosides	No data available	No data available	No data available	No data available
Poly(oxy-1,2-ethanediyl), .alpha.-(carboxymethyl)-.omega.-(dodecyloxy)-, sodium salt	No data available	No data available	No data available	No data available

8.2 Exposure controls

The following information applies for the uses indicated in subsection 1.2 of the Safety Data Sheet.
If available, please refer to the product information sheet for application and handling instructions.
Normal use conditions are assumed for this section.

Recommended safety measures for handling the undiluted product:
Covering activities such as filling and transfer of product to application equipment, flasks or buckets

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

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: 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 (%): 2.0

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

Personal protective equipment
Eye / face protection: No special requirements under normal use conditions.
Hand protection: Rinse and dry hands after use. For prolonged contact protection for the skin may be necessary.
Body protection: No special requirements under normal use conditions.
Respiratory protection: No special requirements under normal use conditions.

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

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties
Information in this section refers to the product, unless it is specifically stated that substance data is listed

	Method / remark
Physical State: Liquid	
Colour: Translucent, Light, Yellow	
Odour: Product specific	
Odour threshold: Not applicable	
pH: ≈ 12 (neat)	ISO 4316
Dilution pH: ≈ 11	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)
disodium disilicate	> 100	Method not given	
sodium hydroxide	> 990	Method not given	
D-pentose, oligomeric, C5 alkyl glycosides	No data available		
C10-12 alkyl glycosides	No data available		
Poly(oxy-1,2-ethanediyl), .alpha.-(carboxymethyl)-.omega.-(dodecyloxy)-, sodium salt	No data available		

	Method / remark
Flash point (°C): Not applicable.	
Sustained combustion: No	
(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

Not relevant to classification of this product

Substance data, flammability or explosive limits, if available:

Vapour pressure: See substance data.

Method / remark
See substance data

Substance data, vapour pressure

Ingredient(s)	Value (Pa)	Method	Temperature (°C)
disodium disilicate	No data available		
sodium hydroxide	< 1330	Method not given	20
D-pentose, oligomeric, C5 alkyl glycosides	No data available		
C10-12 alkyl glycosides	No data available		
Poly(oxy-1,2-ethanediyl), .alpha.-(carboxymethyl)-.omega.-(dodecyloxy)-, sodium salt	No data available		

Method / remark

Vapour density: Not determined
Relative density: ≈ 1.02 (20 °C)
Solubility in / Miscibility with Water: Fully miscible

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)
disodium disilicate	Soluble	Method not given	20
sodium hydroxide	1000	Method not given	20
D-pentose, oligomeric, C5 alkyl glycosides	No data available		
C10-12 alkyl glycosides	No data available		
Poly(oxy-1,2-ethanediyl), .alpha.-(carboxymethyl)-.omega.-(dodecyloxy)-, sodium salt	No data available		

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

Method / remark

Autoignition temperature: Not determined
Decomposition temperature: Not applicable.
Viscosity: ≈ 25 mPa.s (20 °C)
Explosive properties: Not explosive.
Oxidising properties: Not oxidising.

Not relevant to classification of this product

Not relevant to classification of this product
Not explosive, based on substance properties
Not oxidising, based on substance properties

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

OECD 115
Weight of evidence

Substance data, dissociation constant, if available:

Ingredient(s)	Value	Method	Temperature (°C)
disodium disilicate	9.9 - 12 (pKa)	Method not given	

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):

Skin irritation and corrosivity
Result: Not corrosive or irritant **Species:** Not applicable **Method:** Bridging
Eye irritation and corrosivity
Result: Not corrosive or irritant **Species:** Not applicable. **Method:** Bridging

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)
disodium disilicate	LD_{50}	3400	Rat	Method not given	
sodium hydroxide		No data available			
D-pentose, oligomeric, C5 alkyl glycosides		No data available			
C10-12 alkyl glycosides		No data available			
Poly(oxy-1,2-ethanediyl), .alpha.-(carboxymethyl)-.omega.-(dodecyloxy)-, sodium salt		No data available			

Acute dermal toxicity

Ingredient(s)	Endpoint	Value (mg/kg)	Species	Method	Exposure time (h)
disodium disilicate	LD_{50}	> 5000	Rat	Method not given	
sodium hydroxide		No data available			
D-pentose, oligomeric, C5 alkyl glycosides		No data available			
C10-12 alkyl glycosides		No data available			
Poly(oxy-1,2-ethanediyl), .alpha.-(carboxymethyl)-.omega.-(dodecyloxy)-, sodium salt		No data available			

Acute inhalative toxicity

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
disodium disilicate		No mortality observed	Rat	Non guideline test	
sodium hydroxide		No data available			
D-pentose, oligomeric, C5 alkyl glycosides		No data available			
C10-12 alkyl glycosides		No data available			
Poly(oxy-1,2-ethanediyl), .alpha.-(carboxymethyl)-.omega.-(dodecyloxy)-, sodium salt		No data available			

Irritation and corrosivity

Skin irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
disodium disilicate	Irritant		Method not given	
sodium hydroxide	Corrosive	Rabbit	Method not given	
D-pentose, oligomeric, C5 alkyl glycosides	No data available			
C10-12 alkyl glycosides	No data available			
Poly(oxy-1,2-ethanediyl), .alpha.-(carboxymethyl)-.omega.-(dodecyloxy)-, sodium salt	No data available			

Eye irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
disodium disilicate	Severe damage		Method not given	
sodium hydroxide	Corrosive	Rabbit	Method not given	
D-pentose, oligomeric, C5 alkyl glycosides	No data available			
C10-12 alkyl glycosides	No data available			
Poly(oxy-1,2-ethanediyl), .alpha.-(carboxymethyl)-.omega.-(dodecyloxy)-, sodium salt	No data available			

Respiratory tract irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
disodium disilicate	Irritating to		Method not given	

	respiratory tract			
sodium hydroxide	No data available			
D-pentose, oligomeric, C5 alkyl glycosides	No data available			
C10-12 alkyl glycosides	No data available			
Poly(oxy-1,2-ethanediyl), .alpha.-(carboxymethyl)-.omega.-(dodecyloxy)-, sodium salt	No data available			

Sensitisation

Sensitisation by skin contact

Ingredient(s)	Result	Species	Method	Exposure time (h)
disodium disilicate	Not sensitising		Method not given	
sodium hydroxide	Not sensitising		Human repeated patch test	
D-pentose, oligomeric, C5 alkyl glycosides	No data available			
C10-12 alkyl glycosides	No data available			
Poly(oxy-1,2-ethanediyl), .alpha.-(carboxymethyl)-.omega.-(dodecyloxy)-, sodium salt	No data available			

Sensitisation by inhalation

Ingredient(s)	Result	Species	Method	Exposure time
disodium disilicate	No data available			
sodium hydroxide	No data available			
D-pentose, oligomeric, C5 alkyl glycosides	No data available			
C10-12 alkyl glycosides	No data available			
Poly(oxy-1,2-ethanediyl), .alpha.-(carboxymethyl)-.omega.-(dodecyloxy)-, sodium salt	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)
disodium disilicate	No evidence for mutagenicity, negative test results		No data available	
sodium hydroxide	No evidence for mutagenicity, negative test results	DNA repair test on rat hepatocytes OECD 473	No evidence for mutagenicity, negative test results	OECD 474 (EU B.12) OECD 475 (EU B.11)
D-pentose, oligomeric, C5 alkyl glycosides	No data available		No data available	
C10-12 alkyl glycosides	No data available		No data available	
Poly(oxy-1,2-ethanediyl), .alpha.-(carboxymethyl)-.omega.-(dodecyloxy)-, sodium salt	No data available		No data available	

Carcinogenicity

Ingredient(s)	Effect
disodium disilicate	No evidence for carcinogenicity, negative test results
sodium hydroxide	No evidence for carcinogenicity, weight-of-evidence
D-pentose, oligomeric, C5 alkyl glycosides	No data available
C10-12 alkyl glycosides	No data available
Poly(oxy-1,2-ethanediyl), .alpha.-(carboxymethyl)-.omega.-(dodecyloxy)-, sodium salt	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
disodium disilicate			No data available				No evidence for reproductive toxicity
sodium hydroxide			No data available				No evidence for developmental toxicity No evidence for reproductive toxicity
D-pentose, oligomeric, C5 alkyl glycosides			No data available				
C10-12 alkyl glycosides			No data available				
Poly(oxy-1,2-ethanediyl), .alpha.-(carboxymethyl)-.omega.-(dodecyloxy)-, sodium salt			No data 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
disodium disilicate	NOAEL	> 159	Rat	Method not given	180	No effects observed
sodium hydroxide		No data				

		available				
D-pentose, oligomeric, C5 alkyl glycosides		No data available				
C10-12 alkyl glycosides		No data available				
Poly(oxy-1,2-ethanediyl), .alpha.-(carboxymethyl)-.omega.-(dodecyloxy)-, sodium salt		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
disodium disilicate		No data available				
sodium hydroxide		No data available				
D-pentose, oligomeric, C5 alkyl glycosides		No data available				
C10-12 alkyl glycosides		No data available				
Poly(oxy-1,2-ethanediyl), .alpha.-(carboxymethyl)-.omega.-(dodecyloxy)-, sodium salt		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
disodium disilicate		No data available				
sodium hydroxide		No data available				
D-pentose, oligomeric, C5 alkyl glycosides		No data available				
C10-12 alkyl glycosides		No data available				
Poly(oxy-1,2-ethanediyl), .alpha.-(carboxymethyl)-.omega.-(dodecyloxy)-, sodium salt		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
disodium disilicate			No data available					
sodium hydroxide			No data available					
D-pentose, oligomeric, C5 alkyl glycosides			No data available					
C10-12 alkyl glycosides			No data available					
Poly(oxy-1,2-ethanediyl), .alpha.-(carboxymethyl)-.omega.-(dodecyloxy)-, sodium salt			No data available					

STOT-single exposure

Ingredient(s)	Affected organ(s)
disodium disilicate	No data available
sodium hydroxide	No data available
D-pentose, oligomeric, C5 alkyl glycosides	No data available
C10-12 alkyl glycosides	No data available
Poly(oxy-1,2-ethanediyl), .alpha.-(carboxymethyl)-.omega.-(dodecyloxy)-, sodium salt	No data available

STOT-repeated exposure

Ingredient(s)	Affected organ(s)
disodium disilicate	Not applicable
sodium hydroxide	No data available
D-pentose, oligomeric, C5 alkyl glycosides	No data available
C10-12 alkyl glycosides	No data available
Poly(oxy-1,2-ethanediyl), .alpha.-(carboxymethyl)-.omega.-(dodecyloxy)-, sodium salt	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)
disodium disilicate	LC_{50}	260 - 310	*Oncorhynchus mykiss*	Method not given	96
sodium hydroxide	LC_{50}	35	*Various species*	Method not given	96
D-pentose, oligomeric, C5 alkyl glycosides		No data available			
C10-12 alkyl glycosides		No data available			
Poly(oxy-1,2-ethanediyl), .alpha.-(carboxymethyl)-.omega.-(dodecyloxy)-, sodium salt		No data available			

Aquatic short-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
disodium disilicate	EC_{50}	1700	*Daphnia magna Straus*	Method not given	48
sodium hydroxide	EC_{50}	40.4	*Ceriodaphnia sp.*	Method not given	48
D-pentose, oligomeric, C5 alkyl glycosides		No data available			
C10-12 alkyl glycosides		No data available			
Poly(oxy-1,2-ethanediyl), .alpha.-(carboxymethyl)-.omega.-(dodecyloxy)-, sodium salt		No data available			

Aquatic short-term toxicity - algae

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
disodium disilicate	EC_{50}	207	*Desmodesmus subspicatus*	Method not given	72
sodium hydroxide	EC_{50}	22	*Photobacterium phosphoreum*	Method not given	0.25
D-pentose, oligomeric, C5 alkyl glycosides		No data available			
C10-12 alkyl glycosides		No data available			
Poly(oxy-1,2-ethanediyl), .alpha.-(carboxymethyl)-.omega.-(dodecyloxy)-, sodium salt		No data available			

Aquatic short-term toxicity - marine species

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (days)
disodium disilicate		No data available			-
sodium hydroxide		No data available			-
D-pentose, oligomeric, C5 alkyl glycosides		No data available			
C10-12 alkyl glycosides		No data available			
Poly(oxy-1,2-ethanediyl), .alpha.-(carboxymethyl)-.omega.-(dodecyloxy)-, sodium salt		No data available			

Impact on sewage plants - toxicity to bacteria

Ingredient(s)	Endpoint	Value (mg/l)	Inoculum	Method	Exposure time
disodium disilicate		No data available			
sodium hydroxide		No data available			
D-pentose, oligomeric, C5 alkyl glycosides		No data available			
C10-12 alkyl glycosides		No data available			
Poly(oxy-1,2-ethanediyl), .alpha.-(carboxymethyl)-.omega.-(dodecyloxy)-,		No data			

sodium salt		available			

Aquatic long-term toxicity

Aquatic long-term toxicity - fish

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
disodium disilicate	NOEC	348	*Brachydanio rerio*	Method not given	96 hour(s)	
sodium hydroxide		No data available				
D-pentose, oligomeric, C5 alkyl glycosides		No data available				
C10-12 alkyl glycosides		No data available				
Poly(oxy-1,2-ethanediyl), .alpha.-(carboxymethyl)-.omega.-(dodecyloxy)-, sodium salt		No data available				

Aquatic long-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
disodium disilicate		No data available				
sodium hydroxide		No data available				
D-pentose, oligomeric, C5 alkyl glycosides		No data available				
C10-12 alkyl glycosides		No data available				
Poly(oxy-1,2-ethanediyl), .alpha.-(carboxymethyl)-.omega.-(dodecyloxy)-, sodium salt		No data available				

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
disodium disilicate		No data available			-	
sodium hydroxide		No data available			-	
D-pentose, oligomeric, C5 alkyl glycosides		No data available				
C10-12 alkyl glycosides		No data available				
Poly(oxy-1,2-ethanediyl), .alpha.-(carboxymethyl)-.omega.-(dodecyloxy)-, sodium salt		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
disodium disilicate		No data available			-	
sodium hydroxide		No data available			-	

Terrestrial toxicity - plants, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
disodium disilicate		No data available			-	
sodium hydroxide		No data available			-	

Terrestrial toxicity - birds, if available:

Ingredient(s)	Endpoint	Value	Species	Method	Exposure time (days)	Effects observed
disodium disilicate		No data available			-	
sodium hydroxide		No data available			-	

Terrestrial toxicity - beneficial insects, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
disodium disilicate		No data			-	

		available				
sodium hydroxide		No data available			-	

Terrestrial toxicity - soil bacteria, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
disodium disilicate		No data available			-	
sodium hydroxide		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
sodium hydroxide	13 second(s)	Method not given	Rapidly photodegradable	

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
disodium disilicate					Not applicable (inorganic substance)
sodium hydroxide					Not applicable (inorganic substance)
D-pentose, oligomeric, C5 alkyl glycosides				Weight of evidence	Readily biodegradable
C10-12 alkyl glycosides					No data available
Poly(oxy-1,2-ethanediyl), .alpha.-(carboxymethyl)-.omega.-(dodecyloxy)-, sodium salt				OECD 301B	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
disodium disilicate	No data available		Low potential for bioaccumulation	
sodium hydroxide	No data available		Not relevant, does not bioaccumulate	
D-pentose, oligomeric, C5 alkyl glycosides	No data available			
C10-12 alkyl glycosides	No data available			
Poly(oxy-1,2-ethanediyl), .alpha.-(carboxymethyl)-.omega.-(dodecyloxy)-, sodium salt	No data available			

Bioconcentration factor (BCF)

Ingredient(s)	Value	Species	Method	Evaluation	Remark
disodium disilicate	No data available				
sodium hydroxide	No data available				
D-pentose, oligomeric, C5 alkyl glycosides	No data available				
C10-12 alkyl glycosides	No data available				
Poly(oxy-1,2-ethanediyl), .alpha.-(carboxymethyl)-.omega.-(dodecyloxy)-, sodium salt	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
disodium disilicate	No data available				
sodium hydroxide	No data available				Mobile in soil
D-pentose, oligomeric, C5 alkyl glycosides	No data available				
C10-12 alkyl glycosides	No data available				

Poly(oxy-1,2-ethanediyl), .alpha.-(carboxymethyl)-.omega.-(dodecyloxy)-, sodium salt	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 30 - detergents other than those mentioned in 20 01 29.

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: Non-dangerous goods
14.2 UN proper shipping name: Non-dangerous goods
14.3 Transport hazard class(es): Non-dangerous goods
Class: -
14.4 Packing group: Non-dangerous goods
14.5 Environmental hazards: Non-dangerous goods
14.6 Special precautions for user: Non-dangerous goods
14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code: Non-dangerous goods

SECTION 15: Regulatory information

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

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

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

Ingredients according to EC Detergents Regulation 648/2004
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 guarantee for any specific product features and does not establish a legally binding contract

SDS code: MS1002668 **Version:** 05.0 **Revision:** 2018-01-25

Reason for revision:
This data sheet contains changes from the previous version in section(s):, 2, 3, 8, 9, 11, 12, 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:
- H290 - May be corrosive to metals.
- H314 - Causes severe skin burns and eye damage.
- H315 - Causes skin irritation.

• H318 - Causes serious eye damage.
• H319 - Causes serious eye irritation.
• H335 - May cause respiratory irritation.

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