

Carefree Stripper

Revision: 2014-02-06

Version: 02

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

1.1 Product identifier

Trade name: Carefree Stripper

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

Identified uses:

For professional use only.

AISE-P404 - Floor stripper. Manual process

AISE-P405 - Floor stripper. Semi-automatic process

Uses advised against: Uses other than those identified are not recommended

1.3 Details of the supplier of the safety data sheet

Diversey Ltd

Contact details

Weston Favell Centre, Northampton NN3 8PD, United Kingdom

Tel: 01604 405311, Fax: 01604 406809

Regulatory Email: MSDSinfoUK@sealedair.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

The product has been classified and labelled in accordance with Directive 1999/45/EC and corresponding national legislation.

Indication of danger

C - Corrosive

Risk phrases:

R35 - Causes severe burns.

R37 - Irritating to respiratory system.

2.2 Label elements



C - Corrosive

Contains sodium hydroxide, 2-aminoethanol

Risk phrases:

R35 - Causes severe burns.

R37 - Irritating to respiratory system.

Safety phrases:

S23c - Do not breathe vapour.

S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S28a - After contact with skin, wash immediately with plenty of water.

S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

S51 - Use only in well-ventilated areas.

S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection.

2.3 Other hazards

Carefree Stripper

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	Classification (EC) 1272/2008	Notes	Weight percent
water, distilled, conductivity or of similar purity	231-791-2	7732-18-5	[2]	-	-		>= 75
sodium hydroxide	215-185-5	1310-73-2	01-2119457892-27	C;R35	Skin Corr. 1A (H314) Met. Corr. 1 (H290)		3-10
2-aminoethanol	205-483-3	141-43-5	01-2119486455-28	Xn;R20/21/22 C;R34 Xi;R37	Skin Corr. 1B (H314) Acute Tox. 4 (H302) Acute Tox. 4 (H312) Acute Tox. 4 (H332) STOT SE 3 (H335) Aquatic Chronic 3 (H412)		3-10
sodium cumenesulphonate	248-983-7	28348-53-0	01-2119489411-37	Xi;R36	Eye Irrit. 2 (H319)		1-3
2-butoxyethanol	203-905-0	111-76-2	01-2119475108-36	Xn;R20/21/22 Xi;R36/38	Acute Tox. 4 (H302) Acute Tox. 4 (H312) Acute Tox. 4 (H332) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319)		1-3
alkyl alcohol alkoxylate	Polymer*	196823-11-7	[4]	Xi;R36/38	Eye Irrit. 2 (H319)		1-3
fatty acids, C12-18, sodium salts	293-019-0	91032-12-1	No data available	-	-		0.1-1
alpha-alanine, N,N-bis(carboxymethyl)-, trisodium salt	423-270-5	164462-16-2	01-0000016977-53	-	-		0.1-1
sodium 3,3'-(9,10-dioxoanthracene-1,4-diyldiimino)bis(2,4,6-trimethylbenzenesulphonate)	224-748-4	4474-24-2	No data available	R52/53	Aquatic Chronic 3 (H412)		< 0.01

* Polymer.

For the full text of the R, H and EUH phrases mentioned in this Section, see Section 16.

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.

SECTION 4: First aid measures

4.1 Description of first aid measures

General Information:

If unconscious place in recovery position and seek medical advice.

Inhalation

Remove from source of exposure. Get medical attention immediately.

Skin contact:

Immediately wash off with plenty of water. Take off all contaminated clothing immediately. Get medical attention.

Eye contact:

Wash off immediately with plenty of water. Get medical attention immediately.

Ingestion:

Remove material from mouth. Immediately drink 1-2 glasses of water or milk. Get medical attention immediately.

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:

Severe irritant, may cause respiratory tract irritation.

Skin contact:

Causes severe burns.

Eye contact:

Causes severe or permanent damage.

Ingestion:

Causes severe burns. Ingestion will lead to a strong caustic effect on mouth and throat and to the danger of perforation of oesophagus and stomach.

Sensitisation:

No known effects.

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.

Carefree Stripper

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**

Ensure adequate ventilation. Do not breathe dust or vapour. Wear suitable protective clothing, gloves and eye/face protection.

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

Use neutralising agent. Absorb onto dry sand or similar inert material. Ensure adequate ventilation.

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****Advice on safe handling:**

Handle in accordance with good industrial hygiene and safety practice. Do not mix with other products unless advised by Diversey. Use only with adequate ventilation. For advice on general occupational hygiene see subsection 8.2. For environmental exposure controls see subsection 8.2. For incompatible materials see subsection 10.5.

Prevention of fire and explosion:

No special precautions required.

7.2 Conditions for safe storage, including any incompatibilities**Requirements for storage rooms / facilities:**

In accordance with local and national regulations.

Combined storage in storage rooms / facilities:

In accordance with local and national regulations. For incompatible materials see subsection 10.5.

Basic storage conditions

Store in original container. Keep container tightly closed. For conditions to avoid see subsection 10.4.

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/m ³
2-aminoethanol	1 ppm 2.5 mg/m ³	3 ppm 7.6 mg/m ³
2-butoxyethanol	25 ppm 123 mg/m ³	50 ppm 246 mg/m ³

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
water, distilled, conductivity or of similar purity	No data available	No data available	No data available	No data available
sodium hydroxide	No data available	No data available	No data available	No data available
2-aminoethanol	No data available	No data available	No data available	3.75
sodium cumenesulphonate	No data available	No data available	No data available	No data available
2-butoxyethanol	No data available	13.4	No data available	3.2
alkyl alcohol alkoxylate	No data available	No data available	No data available	No data available
fatty acids, C12-18, sodium salts	No data available	No data available	No data available	No data available
alpha-alanine, N,N-bis(carboxymethyl)-, trisodium salt	No data available	85	No data available	17

Carefree Stripper

sodium 3,3'-(9,10-dioxoanthracene-1,4-diyl)diimino)bis(2,4,6-trimethylbenz enesulphonate)	No data available	No data available	No data available	No data available
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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)
water, distilled, conductivity or of similar purity	No data available	No data available	No data available	No data available
sodium hydroxide	2 %	No data available	No data available	No data available
2-aminoethanol	No data available	No data available	No data available	1
sodium cumenesulphonate	No data available	No data available	No data available	No data available
2-butoxyethanol	No data available	89	No data available	75
alkyl alcohol alkoxylate	No data available	No data available	No data available	No data available
fatty acids, C12-18, sodium salts	No data available	No data available	No data available	No data available
alpha-alanine, N,N-bis(carboxymethyl)-, trisodium salt	No data available	No data available	No data available	No data available
sodium 3,3'-(9,10-dioxoanthracene-1,4-diyl)diimino)bis(2,4,6-trimethylbenz enesulphonate)	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)
water, distilled, conductivity or of similar purity	No data available	No data available	No data available	No data available
sodium hydroxide	2 %	No data available	No data available	No data available
2-aminoethanol	No data available	No data available	No data available	0.24
sodium cumenesulphonate	No data available	No data available	No data available	No data available
2-butoxyethanol	No data available	44.5	No data available	38
alkyl alcohol alkoxylate	No data available	No data available	No data available	No data available
fatty acids, C12-18, sodium salts	No data available	No data available	No data available	No data available
alpha-alanine, N,N-bis(carboxymethyl)-, trisodium salt	No data available	No data available	No data available	No data available
sodium 3,3'-(9,10-dioxoanthracene-1,4-diyl)diimino)bis(2,4,6-trimethylbenz enesulphonate)	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
water, distilled, conductivity or of similar purity	No data available	No data available	No data available	No data available
sodium hydroxide	No data available	No data available	1	No data available
2-aminoethanol	No data available	No data available	3.3	3.3
sodium cumenesulphonate	No data available	No data available	No data available	No data available
2-butoxyethanol	246	663	No data available	98
alkyl alcohol alkoxylate	No data available	No data available	No data available	No data available
fatty acids, C12-18, sodium salts	No data available	No data available	No data available	No data available
alpha-alanine, N,N-bis(carboxymethyl)-, trisodium salt	40	40	4	40
sodium 3,3'-(9,10-dioxoanthracene-1,4-diyl)diimino)bis(2,4,6-trimethylbenz enesulphonate)	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
water, distilled, conductivity or of similar purity	No data available	No data available	No data available	No data available
sodium hydroxide	No data available	No data available	1	No data available
2-aminoethanol	No data available	No data available	2	2
sodium cumenesulphonate	No data available	No data available	No data available	No data available
2-butoxyethanol	123	426	No data available	49
alkyl alcohol alkoxylate	No data available	No data available	No data available	No data available
fatty acids, C12-18, sodium salts	No data available	No data available	No data available	No data available
alpha-alanine, N,N-bis(carboxymethyl)-, trisodium salt	20	20	2	20
sodium 3,3'-(9,10-dioxoanthracene-1,4-diyl)diimino)bis(2,4,6-trimethylbenz enesulphonate)	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)
water, distilled, conductivity or of similar purity	No data available	No data available	No data available	No data available
sodium hydroxide	No data available	No data available	No data available	No data available
2-aminoethanol	0.085	0.0085	0.025	100
sodium cumenesulphonate	No data available	No data available	No data available	No data available
2-butoxyethanol	8.8	0.88	9.1	463
alkyl alcohol alkoxylate	No data available	No data available	No data available	No data available
fatty acids, C12-18, sodium salts	No data available	No data available	No data available	No data available
alpha-alanine, N,N-bis(carboxymethyl)-, trisodium salt	2	0.2	1	100

Carefree Stripper

sodium 3,3'-(9,10-dioxoanthracene-1,4-diyl)diimino)bis(2,4,6-trimethylbenzenesulphonate)	No data available	No data available	No data available	No data available
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Environmental exposure - PNEC, continued

Ingredient(s)	Sediment, freshwater (mg/kg)	Sediment, marine (mg/kg)	Soil (mg/kg)	Air (mg/m ³)
water, distilled, conductivity or of similar purity	No data available	No data available	No data available	No data available
sodium hydroxide	No data available	No data available	No data available	No data available
2-aminoethanol	0.425	0.0425	0.035	0.025
sodium cumenesulphonate	No data available	No data available	No data available	No data available
2-butoxyethanol	34.6	3.46	3.13	No data available
alkyl alcohol alkoxylate	No data available	No data available	No data available	No data available
fatty acids, C12-18, sodium salts	No data available	No data available	No data available	No data available
alpha-alanine, N,N-bis(carboxymethyl)-, trisodium salt	24	No data available	2.5	1
sodium 3,3'-(9,10-dioxoanthracene-1,4-diyl)diimino)bis(2,4,6-trimethylbenzenesulphonate)	No data available	No data available	No data available	No data available

8.2 Exposure controls

General health and safety measures

Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs. Take off immediately all contaminated clothing. Wash hands before breaks and at the end of workday. Do not breathe gases, vapour, spray or aerosols. Use only in well-ventilated areas. Avoid contact with skin and eyes.

The following information applies for the uses indicated in subsection 1.2.

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: If the product is diluted by using specific dosing systems with no risk of splashes or direct skin contact, the personal protection equipment as described in this section is not required. Where possible: use in automated/closed system and cover open containers. Transport over pipes. Filling with automatic systems. Use tools for manual handling of product.

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

Personal protective equipment

Eye / face protection:

Safety glasses or goggles (EN 166).

Hand protection:

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: \geq 480 min

Material thickness: \geq 0.7 mm

Suggested gloves for protection against splashes:

Material: nitrile rubber

Penetration time: \geq 30 min

Material thickness: \geq 0.4 mm

Body protection:

In consultation with the supplier of protective gloves a different type providing similar protection may be chosen.

Wear chemical-resistant clothing and boots in case direct dermal exposure and/or splashes may occur.

Respiratory protection:

Respiratory protection is not normally required. However, inhalation of vapour, spray, gas or aerosols should be avoided.

Environmental exposure controls:

Should not reach sewage water or drainage ditch undiluted or unneutralised.

Recommended safety measures for handling the diluted product:

Recommended maximum concentration (%): 20

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.

Carefree Stripper

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

Physical State: Liquid
Colour: Clear, Blue
Odour: Product specific
Odour threshold: Not applicable
pH: > 12 (neat)
Melting point/freezing point (°C): Not determined
Initial boiling point and boiling range (°C): Not determined

Method / remark

Substance data, boiling point

Ingredient(s)	Value (°C)	Method	Atmospheric pressure (hPa)
water, distilled, conductivity or of similar purity	No data available		
sodium hydroxide	> 990	Method not given	1013
2-aminoethanol	169-171	Method not given	1013
sodium cumenesulphonate	> 100	Method not given	
2-butoxyethanol	168-172	Method not given	1013
alkyl alcohol alkoxylate	No data available		
fatty acids, C12-18, sodium salts	No data available		
alpha-alanine, N,N-bis(carboxymethyl)-, trisodium salt	100	Method not given	1013
sodium 3,3'-(9,10-dioxoanthracene-1,4-diylidimino)bis(2,4,6-trimethylbenzenesulphonate)	No data available		

Method / remark

Flash point (°C): Not applicable.
Sustained combustion: Not determined
Evaporation rate: Not determined
Flammability (solid, gas): Not determined
Upper/lower flammability limit (%): Not determined

Substance data, flammability or explosive limits, if available:

Ingredient(s)	Lower limit (% vol)	Upper limit (% vol)
2-aminoethanol	3.4	27
2-butoxyethanol	1.1	10.6

Method / remark

Vapour pressure: Not determined

Substance data, vapour pressure

Ingredient(s)	Value (Pa)	Method	Temperature (°C)
water, distilled, conductivity or of similar purity	No data available		
sodium hydroxide	< 1330	Method not given	20
2-aminoethanol	50	Method not given	20
sodium cumenesulphonate	No data available		
2-butoxyethanol	89	Method not given	20
alkyl alcohol alkoxylate	No data available		
fatty acids, C12-18, sodium salts	No data available		
alpha-alanine, N,N-bis(carboxymethyl)-, trisodium salt	No data available		
sodium 3,3'-(9,10-dioxoanthracene-1,4-diylidimino)bis(2,4,6-trimethylbenzenesulphonate)	Not applicable		

Method / remark

Vapour density: Not determined
Relative density: 1.07 g/cm³ (20°C)
Solubility in / Miscibility with Water: Fully miscible

Substance data, solubility in water

Ingredient(s)	Value (g/l)	Method	Temperature (°C)
water, distilled, conductivity or of similar purity	No data available		
sodium hydroxide	1000	Method not given	20
2-aminoethanol	1000	Method not given	20
sodium cumenesulphonate	Soluble		
2-butoxyethanol	Soluble	Method not given	20

Carefree Stripper

alkyl alcohol alkoxylate	No data available		
fatty acids, C12-18, sodium salts	No data available		
alpha-alanine, N,N-bis(carboxymethyl)-, trisodium salt	No data available		
sodium 3,3'-(9,10-dioxoanthracene-1,4-diyl-diimino)bis(2,4,6-trimethylbenzenesulphonate)	10	Method not given	25

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

Method / remark

Autoignition temperature: Not determined

Decomposition temperature: Not determined

Viscosity: Not determined

Explosive properties: Not explosive.

Oxidising properties: Not oxidising.

9.2 Other information

Surface tension (N/m): Not determined

Corrosion to metals

(according to IMDG/ADR regulation): Not determined

Substance data, dissociation constant, if available:

Ingredient(s)	Value	Method	Temperature (°C)
alpha-alanine, N,N-bis(carboxymethyl)-, trisodium salt	10.6		20

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

Mixtures

No test data is available on the mixture

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)
water, distilled, conductivity or of similar purity		> 2000			
sodium hydroxide		No data available			
2-aminoethanol	LD ₅₀	1515	Rat	OECD 401 (EU B.1)	
sodium cumenesulphonate	LD ₅₀	> 7000	Rat	Method not given	
2-butoxyethanol	LD ₅₀	200 - 2000	Rat	Method not given	
alkyl alcohol alkoxylate		No data available			
fatty acids, C12-18, sodium salts		No data available			
alpha-alanine, N,N-bis(carboxymethyl)-, trisodium salt	LD ₅₀	> 4000	Rat	OECD 401 (EU B.1)	
sodium 3,3'-(9,10-dioxoanthracene-1,4-diyl-diimino)bis(2,4,6-trimethylbenzenesulphonate)	LD ₅₀	> 5000	Rat	Read across	

Acute dermal toxicity

Ingredient(s)	Endpoint	Value (mg/kg)	Species	Method	Exposure time (h)
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Carefree Stripper

water, distilled, conductivity or of similar purity		No data available		
sodium hydroxide		No data available		
2-aminoethanol	LD ₅₀	1025	Rabbit	Method not given
sodium cumenesulphonate	LD ₅₀	> 2000	Rabbit	Method not given
2-butoxyethanol	LD ₅₀	400 - 2000	Rat	Method not given
alkyl alcohol alkoxylate		No data available		
fatty acids, C12-18, sodium salts		No data available		
alpha-alanine, N,N-bis(carboxymethyl)-, trisodium salt	LD ₅₀	> 4000	Rat	OECD 402 (EU B.3)
sodium 3,3'-(9,10-dioxoanthracene-1,4-diyl)diimino)bis(2,4,6-trimethylbenzenesulphonate)		No data available		

Acute inhalative toxicity

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
water, distilled, conductivity or of similar purity		No data available			
sodium hydroxide		No data available			
2-aminoethanol	LC ₀	> 1.3 (vapour)	Rat	Non guideline test	6
sodium cumenesulphonate	LC ₅₀	> 770	Rat	Method not given	4
2-butoxyethanol	LC ₅₀	> 2 (mist)	Rat	Method not given	4
alkyl alcohol alkoxylate		No data available			
fatty acids, C12-18, sodium salts		No data available			
alpha-alanine, N,N-bis(carboxymethyl)-, trisodium salt	LC ₅₀	> 5	Rat	Method not given	
sodium 3,3'-(9,10-dioxoanthracene-1,4-diyl)diimino)bis(2,4,6-trimethylbenzenesulphonate)		No data available			

Irritation and corrosivity

Skin irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
water, distilled, conductivity or of similar purity	No data available			
sodium hydroxide	Corrosive	Rabbit	Method not given	
2-aminoethanol	Corrosive	Rabbit	OECD 404 (EU B.4)	
sodium cumenesulphonate	No data available			
2-butoxyethanol	Irritant	Rabbit	Method not given	
alkyl alcohol alkoxylate	No data available			
fatty acids, C12-18, sodium salts	No data available			
alpha-alanine, N,N-bis(carboxymethyl)-, trisodium salt	Not irritant	Rabbit	OECD 404 (EU B.4)	
sodium 3,3'-(9,10-dioxoanthracene-1,4-diyl)diimino)bis(2,4,6-trimethylbenzenesulphonate)	Not irritant	Rabbit	Read across	

Eye irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
water, distilled, conductivity or of similar purity	No data available			
sodium hydroxide	Corrosive	Rabbit	Method not given	
2-aminoethanol	Severe damage	Rabbit	OECD 405 (EU B.5)	
sodium cumenesulphonate	Irritant		Method not given	
2-butoxyethanol	Irritant	Rabbit	OECD 405 (EU B.5)	
alkyl alcohol alkoxylate	No data available			
fatty acids, C12-18, sodium salts	No data available			
alpha-alanine, N,N-bis(carboxymethyl)-, trisodium salt	Not corrosive or irritant	Rabbit	OECD 405 (EU B.5)	
sodium 3,3'-(9,10-dioxoanthracene-1,4-diyl)diimino)bis(2,4,6-trimethylbenzenesulphonate)	Not corrosive or irritant	Rabbit	OECD 405 (EU B.5) Read across	

Respiratory tract irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
water, distilled, conductivity or of similar purity	No data available			
sodium hydroxide	No data available			
2-aminoethanol	Irritating to respiratory tract		Method not given	
sodium cumenesulphonate	No data available			
2-butoxyethanol	No data available			

Carefree Stripper

alkyl alcohol alkoxylate	No data available			
fatty acids, C12-18, sodium salts	No data available			
alpha-alanine, N,N-bis(carboxymethyl)-, trisodium salt	No data available			
sodium 3,3'-(9,10-dioxoanthracene-1,4-diyl-diimino)bis(2,4,6-trimethylbenzenesulphonate)	No data available			

Sensitisation

Sensitisation by skin contact

Ingredient(s)	Result	Species	Method	Exposure time (h)
water, distilled, conductivity or of similar purity	No data available			
sodium hydroxide	Not sensitising		Human repeated patch test	
2-aminoethanol	Not sensitising	Guinea pig	OECD 406 (EU B.6) / GPMT	
sodium cumenesulphonate	Not sensitising	Guinea pig	OECD 406 (EU B.6) / GPMT	
2-butoxyethanol	Not sensitising	Guinea pig	OECD 406 (EU B.6) / GPMT	
alkyl alcohol alkoxylate	No data available			
fatty acids, C12-18, sodium salts	No data available			
alpha-alanine, N,N-bis(carboxymethyl)-, trisodium salt	Not sensitising	Guinea pig	OECD 406 (EU B.6) / GPMT	
sodium 3,3'-(9,10-dioxoanthracene-1,4-diyl-diimino)bis(2,4,6-trimethylbenzenesulphonate)	Not sensitising	Mouse	OECD 429 (EU B.42) Read across	

Sensitisation by inhalation

Ingredient(s)	Result	Species	Method	Exposure time
water, distilled, conductivity or of similar purity	No data available			
sodium hydroxide	No data available			
2-aminoethanol	No data available			
sodium cumenesulphonate	No data available			
2-butoxyethanol	No data available			
alkyl alcohol alkoxylate	No data available			
fatty acids, C12-18, sodium salts	No data available			
alpha-alanine, N,N-bis(carboxymethyl)-, trisodium salt	No data available			
sodium 3,3'-(9,10-dioxoanthracene-1,4-diyl-diimino)bis(2,4,6-trimethylbenzenesulphonate)	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
water, distilled, conductivity or of similar purity		No data available				
sodium hydroxide		No data available				
2-aminoethanol	NOAEL	300	Rat		75	
sodium cumenesulphonate	NOAEL	763 - 3534		OECD 408 (EU B.26)	90	
2-butoxyethanol		No data available				
alkyl alcohol alkoxylate		No data available				
fatty acids, C12-18, sodium salts		No data available				
alpha-alanine, N,N-bis(carboxymethyl)-, trisodium salt		No data available				
sodium 3,3'-(9,10-dioxoanthracene-1,4-diyl-diimino)bis(2,4,6-trimethylbenzenesulphonate)		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
water, distilled, conductivity or of similar purity		No data available				
sodium hydroxide		No data available				
2-aminoethanol		No data available				
sodium cumenesulphonate	NOAEL	440	Mouse	Method not given	90	
2-butoxyethanol		No data available				

Carefree Stripper

alkyl alcohol alkoxylate		No data available				
fatty acids, C12-18, sodium salts		No data available				
alpha-alanine, N,N-bis(carboxymethyl)-, trisodium salt		No data available				
sodium 3,3'-(9,10-dioxoanthracene-1,4-diyl-diimino)bis(2,4,6-trimethylbenzenesulphonate)		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
water, distilled, conductivity or of similar purity		No data available				
sodium hydroxide		No data available				
2-aminoethanol		No data available				
sodium cumenesulphonate		No data available				
2-butoxyethanol		No data available				
alkyl alcohol alkoxylate		No data available				
fatty acids, C12-18, sodium salts		No data available				
alpha-alanine, N,N-bis(carboxymethyl)-, trisodium salt		No data available				
sodium 3,3'-(9,10-dioxoanthracene-1,4-diyl-diimino)bis(2,4,6-trimethylbenzenesulphonate)		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
water, distilled, conductivity or of similar purity			No data available					
sodium hydroxide			No data available					
2-aminoethanol			No data available					
sodium cumenesulphonate	Dermal	NOAEL	727	Mouse	Method not given	24 month(s)		
2-butoxyethanol			No data available					
alkyl alcohol alkoxylate			No data available					
fatty acids, C12-18, sodium salts			No data available					
alpha-alanine, N,N-bis(carboxymethyl)-, trisodium salt	Oral	NOAEL	530	Rat	OECD 453 (EU B.33)			May cause liver damage
sodium 3,3'-(9,10-dioxoanthracene-1,4-diyl-diimino)bis(2,4,6-trimethylbenzenesulphonate)			No data available					

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Mixture data:

Based on available data, the classification criteria are not met.

Substance data, where relevant and available:

Carcinogenicity

Ingredient(s)	Effect
water, distilled, conductivity or of similar purity	No data available
sodium hydroxide	No evidence for carcinogenicity, weight-of-evidence
2-aminoethanol	No evidence for carcinogenicity, weight-of-evidence
sodium cumenesulphonate	No evidence for carcinogenicity, negative test results
2-butoxyethanol	No evidence for carcinogenicity, negative test results
alkyl alcohol alkoxylate	No data available
fatty acids, C12-18, sodium salts	No data available
alpha-alanine, N,N-bis(carboxymethyl)-, trisodium salt	No evidence for carcinogenicity, negative test results
sodium 3,3'-(9,10-dioxoanthracene-1,4-diyl-diimino)bis(2,4,6-trimethylbenzenesulphonate)	No data available

Carefree Stripper

Mutagenicity

Ingredient(s)	Result (in-vitro)	Method (in-vitro)	Result (in-vivo)	Method (in-vivo)
water, distilled, conductivity or of similar purity	No data available		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)
2-aminoethanol	No evidence for mutagenicity, negative test results	OECD 471 (EU B.12/13) OECD 473 OECD 476 (Mouse lymphoma)	No evidence for mutagenicity, negative test results	OECD 474 (EU B.12)
sodium cumenesulphonate	No evidence for mutagenicity, negative test results	Method not given	No evidence for mutagenicity, negative test results	OECD 474 (EU B.12)
2-butoxyethanol	No evidence for mutagenicity, negative test results	OECD 471 (EU B.12/13)	No data available	
alkyl alcohol alkoxylate	No data available		No data available	
fatty acids, C12-18, sodium salts	No data available		No data available	
alpha-alanine, N,N-bis(carboxymethyl)-, trisodium salt	No evidence for mutagenicity, negative test results	OECD 471 (EU B.12/13) OECD 476 (HGPRT)	No evidence of genotoxicity, negative test results	OECD 474 (EU B.12)
sodium 3,3'-(9,10-dioxoanthracene-1,4-diyldiimino)bis(2,4,6-trimethylbenzenesulphonate)	No data available		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
water, distilled, conductivity or of similar purity			No data available				
sodium hydroxide			No data available				No evidence for developmental toxicity No evidence for reproductive toxicity
2-aminoethanol	NOAEL	Developmental toxicity	> 75	Rabbit	OECD 414 (EU B.31), oral	6 - 15 day(s)	No evidence for developmental toxicity No evidence for reproductive toxicity
sodium cumenesulphonate	NOAEL	Teratogenic effects	> 3000	Rat	Non guideline test		
2-butoxyethanol			No data available				
alkyl alcohol alkoxylate			No data available				
fatty acids, C12-18, sodium salts			No data available				
alpha-alanine, N,N-bis(carboxymethyl)-, trisodium salt	NOAEL	Developmental toxicity	>= 2000	Rat	OECD 421/422		No evidence for reproductive toxicity
sodium 3,3'-(9,10-dioxoanthracene-1,4-diyldiimino)bis(2,4,6-trimethylbenzene sulphonate)			No data available				

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

Mixtures

No test 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)
water, distilled, conductivity or of similar purity		No data available			
sodium hydroxide	LC ₅₀	35	Various species	Method not given	96
2-aminoethanol	LC ₅₀	349	Cyprinus carpio	(EC) 440/2008, C.1	96
sodium cumenesulphonate	LC ₅₀	> 1000	Fish	EPA-OPPTS	96
2-butoxyethanol	LC ₅₀	> 100	Fish	Method not given	96
alkyl alcohol alkoxylate		No data available			

Carefree Stripper

fatty acids, C12-18, sodium salts		No data available			
alpha-alanine, N,N-bis(carboxymethyl)-, trisodium salt	LC ₅₀	> 200	Brachydanio rerio	OECD 203	96
sodium 3,3'-(9,10-dioxoanthracene-1,4-diylidimino)bis(2,4,6-trimethylbenzenesulphonate)	LC ₅₀	75	Oncorhynchus mykiss	Read across	48

Aquatic short-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
water, distilled, conductivity or of similar purity		No data available			
sodium hydroxide	EC ₅₀	40.4	Ceriodaphnia sp.	Method not given	48
2-aminoethanol	EC ₅₀	65	Daphnia magna Straus	OECD 202, static	48
sodium cumenesulphonate	EC ₅₀	> 1000	Daphnia	EPA-OPPTS	48
2-butoxyethanol	EC ₅₀	> 100	Daphnia magna Straus	Method not given	24
alkyl alcohol alkoxylate		No data available			
fatty acids, C12-18, sodium salts		No data available			
alpha-alanine, N,N-bis(carboxymethyl)-, trisodium salt	EC ₅₀	> 200	Daphnia magna Straus	OECD 202	48
sodium 3,3'-(9,10-dioxoanthracene-1,4-diylidimino)bis(2,4,6-trimethylbenzenesulphonate)		No data available			

Aquatic short-term toxicity - algae

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
water, distilled, conductivity or of similar purity		No data available			
sodium hydroxide	EC ₅₀	22	Photobacterium phosphoreum	Method not given	0.25
2-aminoethanol	NOEC	1	Pseudokirchneriella subcapitata	OECD 201	72
sodium cumenesulphonate	E _r C ₅₀	310	Not specified		72
2-butoxyethanol	EC ₅₀	> 100	Not specified	Method not given	168
alkyl alcohol alkoxylate		No data available			
fatty acids, C12-18, sodium salts		No data available			
alpha-alanine, N,N-bis(carboxymethyl)-, trisodium salt	EC ₅₀	> 200	Pseudokirchneriella subcapitata	92/69/EEC	72
sodium 3,3'-(9,10-dioxoanthracene-1,4-diylidimino)bis(2,4,6-trimethylbenzenesulphonate)		No data available			

Aquatic short-term toxicity - marine species

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (days)
water, distilled, conductivity or of similar purity		No data available			
sodium hydroxide		No data available			
2-aminoethanol		No data available			
sodium cumenesulphonate		No data available			
2-butoxyethanol		No data available			
alkyl alcohol alkoxylate		No data available			
fatty acids, C12-18, sodium salts		No data available			
alpha-alanine, N,N-bis(carboxymethyl)-, trisodium salt		No data available			
sodium 3,3'-(9,10-dioxoanthracene-1,4-diylidimino)bis(2,4,6-trimethylbenzenesulphonate)		No data available			

Impact on sewage plants - toxicity to bacteria

Ingredient(s)	Endpoint	Value (mg/l)	Inoculum	Method	Exposure time
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Carefree Stripper

water, distilled, conductivity or of similar purity		No data available			
sodium hydroxide		No data available			
2-aminoethanol	EC ₅₀	> 1000	Activated sludge	DIN EN ISO 8192-OECD 209-88/302/EEC	3 hour(s)
sodium cumenesulphonate	E _r C ₅₀	> 1000	Bacteria	OECD 209	3 hour(s)
2-butoxyethanol	EC ₀	700	<i>Pseudomonas putida</i>	Method not given	16 hour(s)
alkyl alcohol alkoxylate		No data available			
fatty acids, C12-18, sodium salts		No data available			
alpha-alanine, N,N-bis(carboxymethyl)-, trisodium salt	EC ₂₀	> 2000	Activated sludge	OECD 209	30 minute(s)
sodium 3,3'-(9,10-dioxoanthracene-1,4-diyl-diimino)bis(2,4,6-trimethylbenzenesulphonate)	EC ₅₀	> 100	Activated sludge	Read across	3 hour(s)

Aquatic long-term toxicity

Aquatic long-term toxicity - fish

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
water, distilled, conductivity or of similar purity		No data available				
sodium hydroxide		No data available				
2-aminoethanol	NOEC	1.2	<i>Oryzias latipes</i>	OECD 210	30 day(s)	
sodium cumenesulphonate		No data available				
2-butoxyethanol		No data available				
alkyl alcohol alkoxylate		No data available				
fatty acids, C12-18, sodium salts		No data available				
alpha-alanine, N,N-bis(carboxymethyl)-, trisodium salt	NOEC	>= 200	<i>Oncorhynchus mykiss</i>	OECD 204	28 day(s)	
sodium 3,3'-(9,10-dioxoanthracene-1,4-diyl-diimino)bis(2,4,6-trimethylbenzenesulphonate)		No data available				

Aquatic long-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
water, distilled, conductivity or of similar purity		No data available				
sodium hydroxide		No data available				
2-aminoethanol	NOEC	0.85	<i>Daphnia magna</i>	OECD 211	21 day(s)	
sodium cumenesulphonate		No data available				
2-butoxyethanol		No data available				
alkyl alcohol alkoxylate		No data available				
fatty acids, C12-18, sodium salts		No data available				
alpha-alanine, N,N-bis(carboxymethyl)-, trisodium salt	NOEC	>= 200	<i>Daphnia magna</i>	OECD 202	21 day(s)	
sodium 3,3'-(9,10-dioxoanthracene-1,4-diyl-diimino)bis(2,4,6-trimethylbenzenesulphonate)		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
water, distilled, conductivity or of similar purity		No data available				
sodium hydroxide		No data available				
2-aminoethanol		No data available				
sodium cumenesulphonate		No data available				
2-butoxyethanol		No data available				

Carefree Stripper

alkyl alcohol alkoxylate		No data available				
fatty acids, C12-18, sodium salts		No data available				
alpha-alanine, N,N-bis(carboxymethyl)-, trisodium salt		No data available				
sodium 3,3'-(9,10-dioxoanthracene-1,4-diylidimino)bis(2,4,6-trimethylbenzenesulphonate)		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
alpha-alanine, N,N-bis(carboxymethyl)-, trisodium salt	LD ₅₀	300	Eisenia fetida	OECD 207	14	

Terrestrial toxicity - plants, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
alpha-alanine, N,N-bis(carboxymethyl)-, trisodium salt	EC ₅₀	1600	Avena sativa	OECD 208	19	

Terrestrial toxicity - birds, if available:

Terrestrial toxicity - beneficial insects, if available:

Terrestrial toxicity - soil bacteria, if 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
water, distilled, conductivity or of similar purity					No data available
sodium hydroxide					Not applicable (inorganic substance)
2-aminoethanol		DOC reduction	> 90 % in 21 day(s)	OECD 301A	Readily biodegradable
sodium cumenesulphonate					Not readily biodegradable.
2-butoxyethanol			100 % in 28 day(s)	Method not given	Readily biodegradable
alkyl alcohol alkoxylate					No data available
fatty acids, C12-18, sodium salts					No data available
alpha-alanine, N,N-bis(carboxymethyl)-, trisodium salt		Oxygen depletion	80 - 90 % in 28 day(s)	OECD 301F	Readily biodegradable
sodium 3,3'-(9,10-dioxoanthracene-1,4-diylidimino)bis(2,4,6-trimethylbenzenesulphonate)					No data available

Ready biodegradability - anaerobic and marine conditions, if available:

Degradation in relevant environmental compartments, if available:

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.

12.3 Bioaccumulative potential

Partition coefficient n-octanol/water (log Kow)

Ingredient(s)	Value	Method	Evaluation	Remark
water, distilled, conductivity or of similar purity	No data available			
sodium hydroxide	No data available		Not relevant, does not bioaccumulate	
2-aminoethanol	- 1.91	OECD 107	No bioaccumulation expected	
sodium cumenesulphonate	-1.1	Method not given	Low potential for bioaccumulation	
2-butoxyethanol	0.81	OECD 107	No bioaccumulation expected	
alkyl alcohol alkoxylate	No data available			

Carefree Stripper

fatty acids, C12-18, sodium salts	No data available			
alpha-alanine, N,N-bis(carboxymethyl)-, trisodium salt	-4.0	Method not given	No bioaccumulation expected	
sodium 3,3'-(9,10-dioxoanthracene-1,4-diyl-diimino)bis(2,4,6-trimethylbenzenesulphonate)	No data available			

Bioconcentration factor (BCF)

Ingredient(s)	Value	Species	Method	Evaluation	Remark
water, distilled, conductivity or of similar purity	No data available				
sodium hydroxide	No data available				
2-aminoethanol	No data available				
sodium cumenesulphonate	No data available				
2-butoxyethanol	No data available				
alkyl alcohol alkoxylate	No data available				
fatty acids, C12-18, sodium salts	No data available				
alpha-alanine, N,N-bis(carboxymethyl)-, trisodium salt	No data available				
sodium 3,3'-(9,10-dioxoanthracene-1,4-diyl-diimino)bis(2,4,6-trimethylbenzenesulphonate)	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
water, distilled, conductivity or of similar purity	No data available				
sodium hydroxide	No data available				Mobile in soil
2-aminoethanol	0.067		Model calculation		Potential for mobility in soil, soluble in water Adsorption to solid soil phase is not expected
sodium cumenesulphonate	No data available				
2-butoxyethanol	No data available				Potential for mobility in soil, soluble in water
alkyl alcohol alkoxylate	No data available				
fatty acids, C12-18, sodium salts	No data available				
alpha-alanine, N,N-bis(carboxymethyl)-, trisodium salt	No data available				Adsorption to solid soil phase is not expected
sodium 3,3'-(9,10-dioxoanthracene-1,4-diyl-diimino)bis(2,4,6-trimethylbenzenesulphonate)	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 15* - alkalines.

Empty packaging

Recommendation:

Dispose of observing national or local regulations.

Suitable cleaning agents:

Water, if necessary with cleaning agent.

SECTION 14: Transport information

Carefree Stripper

ADR, RID, ADN, IMO/IMDG, ICAO/IATA

14.1 UN number: 1824

14.2 UN proper shipping name:

Sodium hydroxide solution

14.3 Transport hazard class(es):

Class: 8

Label(s): 8

14.4 Packing group: II

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 73/78 and the IBC Code: The product is not transported in bulk tankers.

Other relevant information:

ADR

Classification code: C5

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

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, soap

< 5%

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

MSDS code: MSDS8102

Version: 02

Revision: 2014-02-06

Reason for revision:

Overall design adjusted in accordance with Regulation (EC) No 1907/2006, Annex II

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

- R35 - Causes severe burns.
- R34 - Causes burns.
- R37 - Irritating to respiratory system.
- R36 - Irritating to eyes.
- R20/21/22 - Harmful by inhalation, in contact with skin and if swallowed.
- R36/38 - Irritating to eyes and skin.
- H302 - Harmful if swallowed.
- H312 - Harmful in contact with skin.
- H314 - Causes severe skin burns and eye damage.
- H315 - Causes skin irritation.
- H319 - Causes serious eye irritation.
- H332 - Harmful if inhaled.
- H335 - May cause respiratory irritation.
- 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

End of Safety Data Sheet