



## SUMA SUPERFOAM

Revision: 2018-01-25  
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Version: 02.0

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

#### 1.1 Product identifier

Trade name: SUMA SUPERFOAM

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

##### Identified uses:

For professional and industrial use only.

AISE-P806 - Foam cleaner. Semi-automatic with venting process

AISE-P807 - Foam cleaner. Semi-automatic without venting process

Soaking bath. Manual process (AISE\_CS\_I01 & AISE\_CS\_I10)

**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 Kimya Sanayi ve Ticaret A.Ş.

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Ulusal Zehir Danışma Merkezi (UZEM): 114

Acil Sağlık Hizmetleri: 112

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

Skin Corr. 1A (H314)

Met. Corr. 1 (H290)

#### 2.2 Label elements



**Signal word:** Danger.

Contains sodium hydroxide (Sodium Hydroxide).

#### Hazard statements:

H314 - Causes severe skin burns and eye damage.

H290 - May be corrosive to metals.

#### Precautionary statements:

P280 - Wear protective gloves, protective clothing and eye or face protection.

P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 - Immediately call a POISON CENTRE, doctor or physician.

#### 2.3 Other hazards

No other hazards known

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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	Classification	Notes	Weight percent
sodium hydroxide	215-185-5	1310-73-2	Skin Corr. 1A (H314) Met. Corr. 1 (H290)		3-10
sodium alkylbenzenesulphonate	290-656-6	90194-45-9	Acute Tox. 4 (H302) Skin Irrit. 2 (H315) Eye Dam. 1 (H318)		3-10
2-(2-butoxyethoxy)ethanol	203-961-6	112-34-5	Eye Irrit. 2 (H319)		3-10
sodium cumenesulphonate	239-854-6	15763-76-5	Eye Irrit. 2A (H319)		3-10
sodium alkylethersulphate	Polymer*	68585-34-2	Skin Irrit. 2 (H315) Eye Dam. 1 (H318) Aquatic Chronic 3 (H412)		1-3
tetrasodium ethylene diamine tetraacetate	200-573-9	64-02-8	Acute Tox. 4 (H302) Acute Tox. 4 (H332) STOT RE 2 (H373) Eye Dam. 1 (H318)		1-3

\* Polymer.

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

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

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### General Information:

If breathing is irregular or stopped, administer artificial respiration. If unconscious place in recovery position and seek medical advice. Provide fresh air. No mouth-to-mouth or mouth-to-nose resuscitation. Use Ambu bag or ventilator.

#### Inhalation:

Get medical attention or advice if you feel unwell.

#### Skin contact:

Wash skin with plenty of lukewarm, gently flowing water for at least 30 minutes. Take off immediately all contaminated clothing and wash it before re-use. Immediately call a POISON CENTRE, doctor or physician.

#### 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. Immediately call a POISON CENTRE, doctor or physician.

#### Ingestion:

Rinse mouth. Immediately drink 1 glass of water. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Keep at rest. Immediately call a POISON CENTRE, doctor or physician.

#### Self-protection of first aider:

Consider personal protective equipment as indicated in subsection 8.2.

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

#### Inhalation:

No known effects or symptoms in normal use.

#### Skin contact:

Causes severe burns.

#### Eye contact:

Causes severe or permanent damage.

#### Ingestion:

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

### 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

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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.

### 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 advised by Diversey. Wash hands before breaks and at the end of workday. Wash face, hands and any exposed skin thoroughly after handling. Take off immediately all contaminated clothing. Wash contaminated clothing before reuse. Use personal protective equipment as required. Avoid contact with skin and eyes. 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 container. 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:

Ingredient(s)	Long term value(s)	Short term value(s)
2-(2-butoxyethoxy)ethanol	10 ppm 67.5 mg/m <sup>3</sup>	15 ppm 101.2 mg/m <sup>3</sup>

Biological limit values, if 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:

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). The use of a full-face shield or other full-face protection is strongly recommended when handling open containers or if splashes may occur.

#### 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: >= 480 min  
Material thickness: >= 0.7 mm

Suggested gloves for protection against splashes: Material: nitrile rubber Penetration time: >= 30 min  
Material thickness: >= 0.4 mm

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

**Body protection:** Wear chemical-resistant clothing and boots in case direct dermal exposure and/or splashes may occur (EN 14605).

**Respiratory protection:** If exposure to liquid particles or splashes cannot be avoided use: half mask (EN 140) with particle filter P2 (EN 143) or full-face mask (EN 136) with particle filter P1 (EN 143) Consider specific local use conditions. In consultation with the supplier of respiratory protection equipment a different type providing similar protection may be chosen. Specific applications tools may be available to limit exposure. Please refer to the product information sheet for the possibilities.

**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 (%):** 10

**Appropriate engineering controls:** Ensure that foam equipment does not generate respirable particles.  
**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) are always recommended for foam applications. 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.

**Hand protection:** Suggested gloves for prolonged contact: Material: butyl rubber Penetration time: >= 480 min  
Material thickness: >= 0.7 mm  
In consultation with the supplier of protective gloves a different type providing similar protection may be chosen. Chemical-resistant protective gloves (EN 374) are always recommended for foam applications.

**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

**Physical State:** Liquid  
**Colour:** Clear, Not determined Yellow  
**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**  
Not relevant to classification of this product

Substance data, boiling point

Ingredient(s)	Value (°C)	Method	Atmospheric pressure (hPa)
sodium hydroxide	> 990	Method not given	
sodium alkylbenzenesulphonate	No data available		
2-(2-butoxyethoxy)ethanol	225-233	Method not given	1013
sodium cumenesulphonate	No data available		
sodium alkylethersulphate	> 100	Method not given	
tetrasodium ethylene diamine tetraacetate	No data available	Non-experimental data	

**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 determined  
**Upper/lower flammability limit (%):** Not determined

Substance data, flammability or explosive limits, if available:

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

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2-(2-butoxyethoxy)ethanol	0.8	5.9
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**Method / remark**

**Vapour pressure:** Not determined

Substance data, vapour pressure

Ingredient(s)	Value (Pa)	Method	Temperature (°C)
sodium hydroxide	< 1330	Method not given	20
sodium alkylbenzenesulphonate	No data available		
2-(2-butoxyethoxy)ethanol	2.7	Method not given	20
sodium cumenesulphonate	No data available		
sodium alkylethersulphate	2300		20
tetrasodium ethylene diamine tetraacetate	0.000000002	Read across	25

**Method / remark**

**Vapour density:** Not determined

**Relative density:** ≈ 1.11 (20 °C)

**Solubility in / Miscibility with Water:** Fully miscible

Substance data, solubility in water

Ingredient(s)	Value (g/l)	Method	Temperature (°C)
sodium hydroxide	1000	Method not given	20
sodium alkylbenzenesulphonate	No data available		
2-(2-butoxyethoxy)ethanol	955 Soluble	Method not given	20
sodium cumenesulphonate	493 Soluble	Method not given	20
sodium alkylethersulphate	Soluble		20
tetrasodium ethylene diamine tetraacetate	500	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:** Not determined

**Explosive properties:** Not explosive.

**Oxidising properties:** Not oxidising.

**9.2 Other information**

**Surface tension (N/m):** Not determined

**Corrosion to metals:** Corrosive

Not relevant to classification of this product

Weight of evidence

Substance data, dissociation constant, if available:

## SECTION 10: Stability and reactivity

**10.1 Reactivity**

No reactivity hazards known under normal storage and use conditions.

**10.2 Chemical stability**

Stable under normal storage and use conditions.

**10.3 Possibility of hazardous reactions**

No hazardous reactions known under normal storage and use conditions.

**10.4 Conditions to avoid**

None known under normal storage and use conditions.

**10.5 Incompatible materials**

Reacts with acids.

**10.6 Hazardous decomposition products**

None known under normal storage and use conditions.

## SECTION 11: Toxicological information

**11.1 Information on toxicological effects**

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Mixture data:.

**Relevant calculated ATE(s):**

ATE - Oral (mg/kg): >5000

ATE - Inhalatory, mists (mg/l): >20

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)
sodium hydroxide		No data available			
sodium alkylbenzenesulphonate		No data available			
2-(2-butoxyethoxy)ethanol	LD <sub>50</sub>	2410	Rat	Method not given	
sodium cumenesulphonate	LD <sub>50</sub>	> 7000	Rat	Method not given	
sodium alkylethersulphate	LD <sub>50</sub>	> 2000	Rat	OECD 401 (EU B.1)	
tetrasodium ethylene diamine tetraacetate	LD <sub>50</sub>	>= 1780	Rat	Non guideline test	

Acute dermal toxicity

Ingredient(s)	Endpoint	Value (mg/kg)	Species	Method	Exposure time (h)
sodium hydroxide		No data available			
sodium alkylbenzenesulphonate		No data available			
2-(2-butoxyethoxy)ethanol	LD <sub>50</sub>	2764	Rabbit	Method not given	
sodium cumenesulphonate	LD <sub>50</sub>	> 2000	Rabbit	Method not given	
sodium alkylethersulphate	LD <sub>50</sub>	> 2000	Rat	OECD 402 (EU B.3)	
tetrasodium ethylene diamine tetraacetate	LD <sub>50</sub>	> 5000	Rabbit	Method not given	

Acute inhalative toxicity

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
sodium hydroxide		No data available			
sodium alkylbenzenesulphonate		No data available			
2-(2-butoxyethoxy)ethanol		No data available			
sodium cumenesulphonate	LC <sub>50</sub>	> 5 (mist) No mortality observed	Rat	Read across	3.87
sodium alkylethersulphate		No data available			
tetrasodium ethylene diamine tetraacetate	LC <sub>50</sub>	>= 1 (dust)	Rat	OECD 403 (EU B.2)	6

**Irritation and corrosivity**

Skin irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
sodium hydroxide	Corrosive	Rabbit	Method not given	
sodium alkylbenzenesulphonate	No data available			
2-(2-butoxyethoxy)ethanol	Not irritant	Rabbit	Method not given	
sodium cumenesulphonate	Not irritant	Rabbit	OECD 404 (EU B.4)	
sodium alkylethersulphate	Irritant	Rabbit	OECD 404 (EU B.4)	
tetrasodium ethylene diamine tetraacetate	Not irritant	Rabbit	Non guideline test	

Eye irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
sodium hydroxide	Corrosive	Rabbit	Method not given	
sodium alkylbenzenesulphonate	No data available			
2-(2-butoxyethoxy)ethanol	Irritant	Rabbit	Method not given	
sodium cumenesulphonate	Irritant	Rabbit	OECD 405 (EU B.5)	
sodium alkylethersulphate	Severe damage	Rabbit	OECD 405 (EU B.5)	
tetrasodium ethylene diamine tetraacetate	Severe damage		Method not given	

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Respiratory tract irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
sodium hydroxide	No data available			
sodium alkylbenzenesulphonate	No data available			
2-(2-butoxyethoxy)ethanol	No data available			
sodium cumenesulphonate	No data available			
sodium alkylethersulphate	No data available			
tetrasodium ethylene diamine tetraacetate	No data available			

**Sensitisation**

Sensitisation by skin contact

Ingredient(s)	Result	Species	Method	Exposure time (h)
sodium hydroxide	Not sensitising		Human repeated patch test	
sodium alkylbenzenesulphonate	No data available			
2-(2-butoxyethoxy)ethanol	Not sensitising	Guinea pig	Method not given	
sodium cumenesulphonate	Not sensitising	Guinea pig	OECD 406 (EU B.6) / GPMT	
sodium alkylethersulphate	Not sensitising	Guinea pig	OECD 406 (EU B.6) / GPMT Read across	
tetrasodium ethylene diamine tetraacetate	Not sensitising	Guinea pig	OECD 406 (EU B.6) / GPMT	

Sensitisation by inhalation

Ingredient(s)	Result	Species	Method	Exposure time
sodium hydroxide	No data available			
sodium alkylbenzenesulphonate	No data available			
2-(2-butoxyethoxy)ethanol	No data available			
sodium cumenesulphonate	No data available			
sodium alkylethersulphate	No data available			
tetrasodium ethylene diamine tetraacetate	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)
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)
sodium alkylbenzenesulphonate	No data available		No data available	
2-(2-butoxyethoxy)ethanol	No evidence of genotoxicity, negative test results	Method not given	No evidence of genotoxicity, negative test results	Method not given
sodium cumenesulphonate	No evidence for mutagenicity, negative test results	Method not given	No evidence for mutagenicity, negative test results	OECD 474 (EU B.12)
sodium alkylethersulphate	No evidence for mutagenicity, negative test results	OECD 476 (Chinese Hamster Ovary)	No evidence for mutagenicity, negative test results	
tetrasodium ethylene diamine tetraacetate	No evidence for mutagenicity, negative test results	Method not given	No evidence of genotoxicity, negative test results	Method not given

Carcinogenicity

Ingredient(s)	Effect
sodium hydroxide	No evidence for carcinogenicity, weight-of-evidence
sodium alkylbenzenesulphonate	No data available
2-(2-butoxyethoxy)ethanol	No data available
sodium cumenesulphonate	No evidence for carcinogenicity, negative test results
sodium alkylethersulphate	No evidence for carcinogenicity, negative test results
tetrasodium ethylene diamine tetraacetate	No evidence for carcinogenicity, weight-of-evidence

Toxicity for reproduction

Ingredient(s)	Endpoint	Specific effect	Value (mg/kg bw/d)	Species	Method	Exposure time	Remarks and other effects reported
sodium hydroxide			No data available				No evidence for developmental toxicity No evidence for reproductive toxicity
sodium alkylbenzenesulphonate			No data available				
2-(2-butoxyethoxy)ethanol			No data available				No evidence for developmental toxicity No evidence for

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						reproductive toxicity
sodium cumenesulphonate	NOAEL	Teratogenic effects	> 936	Rat	Non guideline test	No known significant effects or critical hazards
sodium alkylethersulphate	NOAEL	Developmental toxicity	86.6	Rat	OECD 416, (EU B.35), oral	No known significant effects or critical hazards
tetrasodium ethylene diamine tetraacetate			No data available			No evidence for reproductive toxicity

**Repeated dose toxicity**

Sub-acute or sub-chronic oral toxicity

Ingredient(s)	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure time (days)	Specific effects and organs affected
sodium hydroxide		No data available				
sodium alkylbenzenesulphonate		No data available				
2-(2-butoxyethoxy)ethanol		No data available				
sodium cumenesulphonate	NOAEL	763 - 3534	Rat	OECD 408 (EU B.26)		No effects observed
sodium alkylethersulphate	NOAEL	50		Method not given		
tetrasodium ethylene diamine tetraacetate		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
sodium hydroxide		No data available				
sodium alkylbenzenesulphonate		No data available				
2-(2-butoxyethoxy)ethanol		No data available				
sodium cumenesulphonate		No data available				
sodium alkylethersulphate	NOEL	> 12.5		Method not given		
tetrasodium ethylene diamine tetraacetate		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
sodium hydroxide		No data available				
sodium alkylbenzenesulphonate		No data available				
2-(2-butoxyethoxy)ethanol		No data available				
sodium cumenesulphonate		No data available				
sodium alkylethersulphate		No data available				
tetrasodium ethylene diamine tetraacetate		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
sodium hydroxide			No data available					
sodium alkylbenzenesulphonate			No data available					
2-(2-butoxyethoxy)ethanol			No data available					
sodium cumenesulphonate			No data available					
sodium alkylethersulphate			No data available					
tetrasodium ethylene diamine tetraacetate			No data available					

STOT-single exposure

Ingredient(s)	Affected organ(s)



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sodium hydroxide	No data available
sodium alkylbenzenesulphonate	No data available
2-(2-butoxyethoxy)ethanol	No data available
sodium cumenesulphonate	Not applicable
sodium alkylethersulphate	No data available
tetrasodium ethylene diamine tetraacetate	No data available

STOT-repeated exposure

Ingredient(s)	Affected organ(s)
sodium hydroxide	No data available
sodium alkylbenzenesulphonate	No data available
2-(2-butoxyethoxy)ethanol	No data available
sodium cumenesulphonate	Not applicable
sodium alkylethersulphate	No data available
tetrasodium ethylene diamine tetraacetate	Not applicable

#### 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)
sodium hydroxide	LC <sub>50</sub>	35	Various species	Method not given	96
sodium alkylbenzenesulphonate		No data available			
2-(2-butoxyethoxy)ethanol	LC <sub>50</sub>	> 100	Fish	Method not given	-
sodium cumenesulphonate	LC <sub>50</sub>	> 1000	Fish	EPA-OPPTS 850.1075	96
sodium alkylethersulphate	LC <sub>50</sub>	1 - 10	<i>Brachydanio rerio</i>	OECD 203, semi-static	96
tetrasodium ethylene diamine tetraacetate	LC <sub>50</sub>	> 100	<i>Lepomis macrochirus</i>	OPP 72-1, static (EPA)	96

Aquatic short-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
sodium hydroxide	EC <sub>50</sub>	40.4	<i>Ceriodaphnia sp.</i>	Method not given	48
sodium alkylbenzenesulphonate		No data available			
2-(2-butoxyethoxy)ethanol	EC <sub>50</sub>	> 100	<i>Daphnia magna Straus</i>	DIN 38412, Part 11	48
sodium cumenesulphonate	EC <sub>50</sub>	> 100	<i>Daphnia magna Straus</i>	OECD 202 (EU C.2)	48
sodium alkylethersulphate	EC <sub>50</sub>	1 - 10	<i>Daphnia</i>	OECD 202, static	48
tetrasodium ethylene diamine tetraacetate	EC <sub>50</sub>	> 100	<i>Daphnia magna Straus</i>	DIN 38412, Part 11	48

Aquatic short-term toxicity - algae

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
sodium hydroxide	EC <sub>50</sub>	22	<i>Photobacterium phosphoreum</i>	Method not given	0.25
sodium alkylbenzenesulphonate		No data available			
2-(2-butoxyethoxy)ethanol	EC <sub>50</sub>	> 100	<i>Desmodesmus subspicatus</i>	Method not given	-
sodium cumenesulphonate	EC <sub>50</sub>	> 230	Not specified	EPA OPPTS 850.5400	96

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sodium alkylethersulphate	EC <sub>50</sub>	7.5	Not specified	DIN 38412, Part 9	72
tetrasodium ethylene diamine tetraacetate	EC <sub>50</sub>	> 100	<i>Scenedesmus obliquus</i>	88/302/EEC, Part C, static	72

Aquatic short-term toxicity - marine species

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (days)
sodium hydroxide		No data available			-
sodium alkylbenzenesulphonate		No data available			
2-(2-butoxyethoxy)ethanol		No data available			-
sodium cumenesulphonate		No data available			-
sodium alkylethersulphate		No data available			-
tetrasodium ethylene diamine tetraacetate		No data available			-

Impact on sewage plants - toxicity to bacteria

Ingredient(s)	Endpoint	Value (mg/l)	Inoculum	Method	Exposure time
sodium hydroxide		No data available			
sodium alkylbenzenesulphonate		No data available			
2-(2-butoxyethoxy)ethanol	EC <sub>10</sub>	1170	<i>Pseudomonas putida</i>	Method not given	16 hour(s)
sodium cumenesulphonate	E <sub>r</sub> C <sub>50</sub>	> 1000	<i>Bacteria</i>	OECD 209	3 hour(s)
sodium alkylethersulphate	EC <sub>10</sub>	300 - 500		Method not given	0.5 hour(s)
tetrasodium ethylene diamine tetraacetate	EC <sub>20</sub>	> 500	<i>Activated sludge</i>	OECD 209	0.5 hour(s)

**Aquatic long-term toxicity**

Aquatic long-term toxicity - fish

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
sodium hydroxide		No data available				
sodium alkylbenzenesulphonate		No data available				
2-(2-butoxyethoxy)ethanol		No data available				
sodium cumenesulphonate		No data available				
sodium alkylethersulphate	NOEC	0.1 - 0.13	Not specified	Method not given	365 day(s)	
tetrasodium ethylene diamine tetraacetate	NOEC	>= 36.9	<i>Brachydanio rerio</i>	OECD 210	35 day(s)	

Aquatic long-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
sodium hydroxide		No data available				
sodium alkylbenzenesulphonate		No data available				
2-(2-butoxyethoxy)ethanol		No data available				
sodium cumenesulphonate		No data available				
sodium alkylethersulphate	NOEC	0.18 - 0.72	<i>Daphnia sp.</i>	Method not given	21 day(s)	
tetrasodium ethylene diamine tetraacetate	NOEC	25	<i>Daphnia magna</i>	OECD 211	21 day(s)	

Aquatic toxicity to other aquatic benthic organisms, including sediment-dwelling organisms, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw sediment)	Species	Method	Exposure time (days)	Effects observed
sodium hydroxide		No data available			-	
sodium alkylbenzenesulphonate		No data available				
2-(2-butoxyethoxy)ethanol		No data available			-	

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sodium cumenesulphonate		No data available			-	
sodium alkylethersulphate	NOEC	0.72 - 0.9		Method not given	3	
tetrasodium ethylene diamine tetraacetate		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
sodium hydroxide		No data available			-	
2-(2-butoxyethoxy)ethanol		No data available			-	
sodium cumenesulphonate		No data available			-	
sodium alkylethersulphate		No data available			-	
tetrasodium ethylene diamine tetraacetate	LD <sub>50</sub>	156	<i>Eisenia fetida</i>	OECD 207	14	

Terrestrial toxicity - plants, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
sodium hydroxide		No data available			-	
2-(2-butoxyethoxy)ethanol		No data available			-	
sodium cumenesulphonate		No data available			-	
sodium alkylethersulphate		No data available			-	
tetrasodium ethylene diamine tetraacetate	NOEC	0.25 - 1.25			21	

Terrestrial toxicity - birds, if available:

Ingredient(s)	Endpoint	Value	Species	Method	Exposure time (days)	Effects observed
sodium hydroxide		No data available			-	
2-(2-butoxyethoxy)ethanol		No data available			-	
sodium cumenesulphonate		No data available			-	
sodium alkylethersulphate		No data available			-	
tetrasodium ethylene diamine tetraacetate		No data available			-	

Terrestrial toxicity - beneficial insects, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
sodium hydroxide		No data available			-	
2-(2-butoxyethoxy)ethanol		No data available			-	
sodium cumenesulphonate		No data available			-	
sodium alkylethersulphate		No data available			-	
tetrasodium ethylene diamine tetraacetate		No data available			-	

Terrestrial toxicity - soil bacteria, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
sodium hydroxide		No data available			-	
2-(2-butoxyethoxy)ethanol		No data available			-	
sodium cumenesulphonate		No data available			-	
sodium alkylethersulphate		No data available			-	

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tetrasodium ethylene diamine tetraacetate		No data available			-	
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## 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 <sub>50</sub>	Method	Evaluation
sodium hydroxide					Not applicable (inorganic substance)
sodium alkylbenzenesulphonate				OECD 301B	Readily biodegradable
2-(2-butoxyethoxy)ethanol			76 % in 28 day(s)	OECD 301D	Readily biodegradable
sodium cumenesulphonate		CO <sub>2</sub> production	103 - 109% in 28 day(s)	OECD 301B	Readily biodegradable
sodium alkylethersulphate			> 60 % in 28 day(s)	Method not given	Readily biodegradable
tetrasodium ethylene diamine tetraacetate					Not 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 K<sub>ow</sub>)

Ingredient(s)	Value	Method	Evaluation	Remark
sodium hydroxide	No data available		Not relevant, does not bioaccumulate	
sodium alkylbenzenesulphonate	No data available			
2-(2-butoxyethoxy)ethanol	0.56	Method not given	No bioaccumulation expected	
sodium cumenesulphonate	-1.1	Method not given	No bioaccumulation expected	
sodium alkylethersulphate	0.95 - 3.9	Method not given	Low potential for bioaccumulation	
tetrasodium ethylene diamine tetraacetate	-13	Method not given	No bioaccumulation expected	

Bioconcentration factor (BCF)

Ingredient(s)	Value	Species	Method	Evaluation	Remark
sodium hydroxide	No data available				
sodium alkylbenzenesulphonate	No data available				
2-(2-butoxyethoxy)ethanol	No data available				
sodium cumenesulphonate	No data available				
sodium alkylethersulphate	No data available				
tetrasodium ethylene diamine tetraacetate	1.8	<i>Lepomis macrochirus</i>	Method not given	Low potential for bioaccumulation	

## 12.4 Mobility in soil

Adsorption/Desorption to soil or sediment

Ingredient(s)	Adsorption coefficient Log K <sub>oc</sub>	Desorption coefficient Log K <sub>oc</sub> (des)	Method	Soil/sediment type	Evaluation
sodium hydroxide	No data available				Mobile in soil
sodium alkylbenzenesulphonate	No data available				
2-(2-butoxyethoxy)ethanol	No data available				Potential for mobility in soil, soluble in water
sodium cumenesulphonate	No data available				
sodium alkylethersulphate	No data available				
tetrasodium ethylene diamine tetraacetate	No data available				Adsorption to solid soil phase is not expected

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### 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



Land transport (ADR/RID), Sea transport (IMDG), Air transport (ICAO-TI / IATA-DGR)

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 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

#### National regulations

• 11 Aralık 2013 tarihli, 28848 Sayılı, Maddelerin Ve Karışımların Sınıflandırılması, Etiketlenmesi Ve Ambalajlanması Hakkında Yönetmelik.

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

anionic surfactants

5 - 15 %

EDTA and salts thereof

< 5 %

## 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*

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Güvenlik Bilgi Formu Zararlı Maddeler ve Karışımlara İlişkin Güvenlik Bilgi Formları Hakkında Yönetmelik (R.G. 13.12.2014-29204)'e Göre düzenlenmiştir.

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

- H290 - May be corrosive to metals.
- H302 - Harmful if swallowed.
- H314 - Causes severe skin burns and eye damage.
- H315 - Causes skin irritation.
- H318 - Causes serious eye damage.
- H319 - Causes serious eye irritation.
- H332 - Harmful if inhaled.
- H373 - May cause damage to organs through prolonged or repeated exposure.
- H412 - Harmful to aquatic life with long lasting effects.

**Abbreviations and acronyms:**

- AISE - The international Association for Soaps, Detergents and Maintenance Products
- DNEL - Derived No Effect Limit
- EUH - CLP Specific hazard statement
- PBT - Persistent, Bioaccumulative and Toxic
- PNEC - Predicted No Effect Concentration
- REACH number - REACH registration number, without supplier specific part
- vPvB - very Persistent and very Bioaccumulative
- ATE - Acute Toxicity Estimate

**End of Safety Data Sheet**