

## ZENITH TFR1000 TRAFFIC FILM REMOVER

Revision: 2022-01-09

Version: 01.0

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

#### 1.1 Product identifier

**Trade name:** ZENITH TFR1000 TRAFFIC FILM REMOVER

UFI: CUXE-W1CY-500A-XP16

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

**Product use:** Hard surface cleaner.  
Car wash cleaner.  
For professional use only.

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

#### SWED - Sector-specific worker exposure description :

AISE\_SWED\_PW\_1\_1  
AISE\_SWED\_PW\_8a\_1  
AISE\_SWED\_PW\_4\_1  
AISE\_SWED\_PW\_11\_1  
AISE\_SWED\_PW\_19\_1

#### 1.3 Details of the supplier of the safety data sheet

Diversey Ltd, Weston Favell Centre, Northampton NN3 8PD, United Kingdom

#### Contact details

Zenith Hygiene Group  
A1M Business Centre Dixons Hill Road Welham Green  
Herts AL9 7JE  
www.zhgplc.com  
01707 270260  
customercare-zenith@diversey.com

#### 1.4 Emergency telephone number

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

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

Skin Corr. 1B (H314)  
STOT RE 2 (H373)  
Eye Dam. 1 (H318)  
Met. Corr. 1 (H290)

#### 2.2 Label elements



**Signal word:** Danger.

Contains tetrasodium ethylene diamine tetraacetate (Tetrasodium EDTA), sodium alkylbenzenesulphonate (Sodium Dodecylbenzenesulfonate), alkyl alcohol ethoxylate (C9-11 Pareth-5-10), sodium silicate (Sodium Metasilicate), Alcohols, C10-16, ethoxylated, sulfated, sodium salts (3 EO) (Sodium Laureth Sulfate)

#### Hazard statements:

H314 - Causes severe skin burns and eye damage.

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H373 - May cause damage to organs through prolonged or repeated exposure.

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.

**SECTION 3: Composition/information on ingredients****3.2 Mixtures**

Ingredient(s)	EC number	CAS number	REACH number	Classification	Notes	Weight percent
tetrasodium ethylene diamine tetraacetate	200-573-9	64-02-8	01-2119486762-27	Acute Tox. 4 (H302) Acute Tox. 4 (H332) STOT RE 2 (H373) Eye Dam. 1 (H318)		10-20
sodium cumenesulphonate	239-854-6	-	01-2119489411-37	Eye Irrit. 2 (H319)		3-10
sodium alkylbenzenesulphonate	290-656-6	[1]	[1]	Acute Tox. 4 (H302) Skin Irrit. 2 (H315) Eye Dam. 1 (H318)		3-10
sodium silicate	215-687-4	[1]	[1]	Skin Corr. 1B (H314) STOT SE 3 (H335) Eye Dam. 1 (H318) Met. Corr. 1 (H290)		1-3
alkyl alcohol ethoxylate	[4]	68439-46-3	[4]	Acute Tox. 4 (H302) Eye Dam. 1 (H318)		1-3
Alcohols, C10-16, ethoxylated, sulfated, sodium salts (3 EO)	[4]	68585-34-2	[4]	Skin Irrit. 2 (H315) Eye Dam. 1 (H318) Aquatic Chronic 3 (H412)		1-3
sodium hydroxide	215-185-5	1310-73-2	01-2119457892-27	Skin Corr. 1A (H314) Met. Corr. 1 (H290)		0.1-1

**Specific concentration limits**

sodium hydroxide:

- Met. Corr. 1 (H290) >= 0.5%
- Eye Dam. 1 (H318) >= 3% > Eye Irrit. 2 (H319) >= 0.5%
- Skin Corr. 1A (H314) >= 5% > Skin Corr. 1B (H314) >= 2% > Skin Irrit. 2 (H315) >= 0.5%

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

ATE, if available, are listed in section 11.

[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.

[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****General Information:**

Symptoms of intoxication may even occur after several hours. It is recommended to continue medical observation for at least 48 hours after the incident. If unconscious place in recovery position and seek medical advice. Provide fresh air. If breathing is irregular or stopped, administer artificial respiration. No mouth-to-mouth or mouth-to-nose resuscitation. Use Ambu bag or ventilator. Get medical attention or advice if you feel unwell.

**Inhalation:****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 reuse. 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.

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<b>Skin contact:</b>	Causes severe burns.
<b>Eye contact:</b>	Causes severe or permanent damage.
<b>Ingestion:</b>	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**

Wear suitable protective clothing. Wear suitable gloves. Wear eye/face protection.

**6.2 Environmental precautions**

Do not allow to enter drainage system, surface or ground water.

**6.3 Methods and material for containment and cleaning up**

Dyke to collect large liquid spills. Use neutralising agent. Absorb with liquid-binding material (sand, diatomite, universal binders, sawdust). Do not place spilled materials back into the original container. Collect in closed and suitable containers for disposal.

**6.4 Reference to other sections**

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

**SECTION 7: Handling and storage****7.1 Precautions for safe handling****Measures to prevent fire and explosions:**

No special precautions required.

**Measures required to protect the environment:**

For environmental exposure controls see subsection 8.2.

**Advices on general occupational hygiene:**

Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs. Do not mix with other products. Wash face, hands and any exposed skin thoroughly after handling. Take off immediately all contaminated clothing. Wash contaminated clothing before reuse. Avoid contact with skin and eyes. Use only with adequate ventilation. See chapter 8.2, Exposure controls / Personal protection.

**7.2 Conditions for safe storage, including any incompatibilities**

Store in accordance with local and national regulations. Store in a closed container. Keep only in original packaging.

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

**7.3 Specific end use(s)**

No specific advice for end use available.

**SECTION 8: Exposure controls/personal protection****8.1 Control parameters****Workplace exposure limits**

Air limit values, if available:

Ingredient(s)	UK - Long term value(s)	UK - Short term value(s)
sodium hydroxide		2 mg/m <sup>3</sup>

Biological limit values, if available:

Recommended monitoring procedures, if available:

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

**DNEL/DMEL and PNEC values****Human exposure**

DNEL/DMEL oral exposure - Consumer (mg/kg bw)

Ingredient(s)	Short term - Local effects	Short term - Systemic effects	Long term - Local effects	Long term - Systemic effects
tetrasodium ethylene diamine tetraacetate	-	-	-	25
sodium cumenesulphonate	-	-	-	3.8
sodium alkylbenzenesulphonate	No data available	No data available	No data available	No data available
sodium silicate	-	-	-	0.74
alkyl alcohol ethoxylate	-	-	-	-
Alcohols, C10-16, ethoxylated, sulfated, sodium salts (3 EO)	No data available	No data available	No data available	No data available
sodium hydroxide	-	-	-	-

DNEL/DMEL 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)
tetrasodium ethylene diamine tetraacetate	-	-	-	-
sodium cumenesulphonate	No data available	-	No data available	7.6
sodium alkylbenzenesulphonate	No data available	No data available	No data available	No data available
sodium silicate	No data available	-	No data available	1.49
alkyl alcohol ethoxylate	-	-	-	-
Alcohols, C10-16, ethoxylated, sulfated, sodium salts (3 EO)	No data available	No data available	No data available	No data available
sodium hydroxide	2 %	-	-	-

DNEL/DMEL 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)
tetrasodium ethylene diamine tetraacetate	-	-	-	-
sodium cumenesulphonate	No data available	-	No data available	3.8
sodium alkylbenzenesulphonate	No data available	No data available	No data available	No data available
sodium silicate	No data available	-	No data available	0.74
alkyl alcohol ethoxylate	-	-	-	-
Alcohols, C10-16, ethoxylated, sulfated, sodium salts (3 EO)	No data available	No data available	No data available	No data available
sodium hydroxide	2 %	-	-	-

DNEL/DMEL inhalatory exposure - Worker (mg/m<sup>3</sup>)

Ingredient(s)	Short term - Local effects	Short term - Systemic effects	Long term - Local effects	Long term - Systemic effects
tetrasodium ethylene diamine tetraacetate	3	3	1.5	1.5
sodium cumenesulphonate	-	-	-	53.6
sodium alkylbenzenesulphonate	No data available	No data available	No data available	No data available
sodium silicate	-	-	-	6.22
alkyl alcohol ethoxylate	-	-	-	-
Alcohols, C10-16, ethoxylated, sulfated, sodium salts (3 EO)	No data available	No data available	No data available	No data available
sodium hydroxide	-	-	1	-

DNEL/DMEL inhalatory exposure - Consumer (mg/m<sup>3</sup>)

Ingredient(s)	Short term - Local effects	Short term - Systemic effects	Long term - Local effects	Long term - Systemic effects
tetrasodium ethylene diamine tetraacetate	1.2	1.2	0.6	-
sodium cumenesulphonate	-	-	-	13.2
sodium alkylbenzenesulphonate	No data available	No data available	No data available	No data available
sodium silicate	-	-	-	1.55
alkyl alcohol ethoxylate	-	-	-	-
Alcohols, C10-16, ethoxylated, sulfated, sodium salts (3 EO)	No data available	No data available	No data available	No data available
sodium hydroxide	-	-	1	-

**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)
tetrasodium ethylene diamine tetraacetate	2.2	0.22	1.2	43
sodium cumenesulphonate	0.23	0.023	2.3	100
sodium alkylbenzenesulphonate	No data available	No data available	No data available	No data available
sodium silicate	7.5	1	7.5	1000
alkyl alcohol ethoxylate	-	-	-	-
Alcohols, C10-16, ethoxylated, sulfated, sodium salts (3 EO)	No data available	No data available	No data available	No data available

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sodium hydroxide	-	-	-	-
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Environmental exposure - PNEC, continued

Ingredient(s)	Sediment, freshwater (mg/kg)	Sediment, marine (mg/kg)	Soil (mg/kg)	Air (mg/m <sup>3</sup> )
tetrasodium ethylene diamine tetraacetate	-	-	0.72	-
sodium cumenesulphonate	0.862	0.086	0.037	-
sodium alkylbenzenesulphonate	No data available	No data available	No data available	No data available
sodium silicate	-	-	-	-
alkyl alcohol ethoxylate	-	-	-	-
Alcohols, C10-16, ethoxylated, sulfated, sodium salts (3 EO)	No data available	No data available	No data available	No data available
sodium hydroxide	-	-	-	-

**8.2 Exposure controls**

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

Recommended safety measures for handling the undiluted product:

**Appropriate engineering controls:** 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.

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

**REACH use scenarios considered for the undiluted product:**

	SWED - Sector-specific worker exposure description	LCS	PROC	Duration (min)	ERC
Manual transfer and dilution	AISE_SWED_PW_8a_1	PW	PROC 8a	60	ERC8a
Automatic application in a dedicated closed system	AISE_SWED_PW_1_1	PW	PROC 1	60	ERC8a

**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

**Body protection:**

In consultation with the supplier of protective gloves a different type providing similar protection may be chosen.  
No special requirements under normal use conditions. Wear chemical-resistant clothing and boots in case direct dermal exposure and/or splashes may occur (EN 14605).

**Respiratory protection:**

No special requirements under normal use conditions.

**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 (% w/w):** 4

**Appropriate engineering controls:** Provide a good standard of general ventilation.

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

**REACH use scenarios considered for the diluted product:**

	SWED	LCS	PROC	Duration (min)	ERC
Spray application	AISE_SWED_PW_11_1	PW	PROC 11	60	ERC8a
Manual application	AISE_SWED_PW_19_1	PW	PROC 19	480	ERC8a
Automatic application in a dedicated system	AISE_SWED_PW_4_1	PW	PROC 4	480	ERC8a

**Personal protective equipment****Eye / face protection:**

No special requirements under normal use conditions.

**Hand protection:**

No special requirements under normal use conditions.

**Body protection:**

No special requirements under normal use conditions.

**Respiratory protection:**

Trigger spray bottle application: No special requirements under normal use conditions. Apply technical measures to comply with the occupational exposure limits, if available

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**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
<b>Physical state:</b> Liquid	
<b>Colour:</b> Clear , Yellow	
<b>Odour:</b> Product specific	
<b>Odour threshold:</b> Not applicable	
<b>Melting point/freezing point (°C):</b> Not determined	Not relevant to classification of this product
<b>Initial boiling point and boiling range (°C):</b> Not determined	See substance data

Substance data, boiling point

Ingredient(s)	Value (°C)	Method	Atmospheric pressure (hPa)
tetrasodium ethylene diamine tetraacetate	No data available	Non-experimental data	
sodium cumenesulphonate	> 100	Method not given	
sodium alkylbenzenesulphonate	No data available		
sodium silicate	No data available		
alkyl alcohol ethoxylate	> 232.2	Method not given	
Alcohols, C10-16, ethoxylated, sulfated, sodium salts (3 EO)	No data available		
sodium hydroxide	> 990	Method not given	

	Method / remark
<b>Flammability (solid, gas):</b> Not applicable to liquids	
<b>Flammability (liquid):</b> Not flammable.	
<b>Flash point (°C):</b> > 100 °C	closed cup
<b>Sustained combustion:</b> Not applicable. ( UN Manual of Tests and Criteria, section 32, L.2 )	
<b>Lower and upper explosion limit/flammability limit (%):</b> Not determined	

Substance data, flammability or explosive limits, if available:

	Method / remark
<b>Autoignition temperature:</b> Not determined	
<b>Decomposition temperature:</b> Not applicable.	
<b>pH:</b> > 11 (neat)	ISO 4316
<b>Dilution pH:</b> ≈ 11 (4 %)	ISO 4316
<b>Kinematic viscosity:</b> Not determined	
<b>Solubility in / Miscibility with Water:</b> Not miscible or difficult to mix	

Substance data, solubility in water

Ingredient(s)	Value (g/l)	Method	Temperature (°C)
tetrasodium ethylene diamine tetraacetate	500	Method not given	20
sodium cumenesulphonate	Soluble		
sodium alkylbenzenesulphonate	No data available		
sodium silicate	350	Method not given	20
alkyl alcohol ethoxylate	100 Soluble	Method not given	
Alcohols, C10-16, ethoxylated, sulfated, sodium salts (3 EO)	No data available		
sodium hydroxide	1000	Method not given	20

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

	Method / remark
<b>Vapour pressure:</b> Not determined	See substance data

Substance data, vapour pressure

Ingredient(s)	Value (Pa)	Method	Temperature (°C)
tetrasodium ethylene diamine tetraacetate	0.0000000002	Read across	25
sodium cumenesulphonate	No data available		
sodium alkylbenzenesulphonate	No data available		
sodium silicate	No data available		
alkyl alcohol ethoxylate	< 10	Method not given	37.8
Alcohols, C10-16, ethoxylated, sulfated, sodium salts (3 EO)	No data available		

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sodium hydroxide	< 1330	Method not given	20
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**Relative density:**  $\approx$  1.13 (20 °C)  
**Relative vapour density:** No data available.  
**Particle characteristics:** No data available.

**Method / remark**

OECD 109 (EU A.3)  
 Not relevant to classification of this product  
 Not applicable to liquids.

**9.2 Other information****9.2.1 Information with regard to physical hazard classes**

**Explosive properties:** Not explosive.  
**Oxidising properties:** Not oxidising.  
**Corrosion to metals:** Corrosive

UN Manual of Tests and Criteria, section 37

**9.2.2 Other safety characteristics**

No other relevant information 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**

May be corrosive to metals. 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):**

ATE - Oral (mg/kg): >2000

ATE - Inhalatory, mists (mg/l): >5

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)	ATE (mg/kg)
tetrasodium ethylene diamine tetraacetate	LD <sub>50</sub>	1780	Rat	OECD 401 (EU B.1)		12000
sodium cumenesulphonate	LD <sub>50</sub>	> 7000	Rat	Method not given		Not established
sodium alkylbenzenesulphonate	LD <sub>50</sub>	> 1470	Rat	OECD 401 (EU B.1)		13000
sodium silicate	LD <sub>50</sub>	770 - 820	Mouse	Method not given		Not established
alkyl alcohol ethoxylate	LD <sub>50</sub>	1400	Rat	Weight of evidence		29000
Alcohols, C10-16, ethoxylated, sulfated, sodium salts (3 EO)	LD <sub>50</sub>	> 2000	Rat	OECD 401 (EU B.1)		Not established
sodium hydroxide		500				Not established

Acute dermal toxicity

Ingredient(s)	Endpoint	Value (mg/kg)	Species	Method	Exposure time (h)	ATE (mg/kg)
tetrasodium ethylene diamine tetraacetate	LD <sub>50</sub>	> 5000	Rabbit	Method not given		Not established
sodium cumenesulphonate	LD <sub>50</sub>	> 2000	Rabbit	Method not given		Not established
sodium alkylbenzenesulphonate		No data available				Not established

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sodium silicate		No data available				Not established
alkyl alcohol ethoxylate	LD <sub>50</sub>	2000 - 5000	Rat	Weight of evidence		Not established
Alcohols, C10-16, ethoxylated, sulfated, sodium salts (3 EO)	LD <sub>50</sub>	> 2000	Rat	OECD 402 (EU B.3)		Not established
sodium hydroxide	LD <sub>50</sub>	1350	Rabbit	Method not given		Not established

## Acute inhalative toxicity

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
tetrasodium ethylene diamine tetraacetate	LC <sub>50</sub>	≥ 1-5 (dust)	Rat	OECD 403 (EU B.2)	6
sodium cumenesulphonate	LC <sub>50</sub>	> 770	Rat	Method not given	4
sodium alkylbenzenesulphonate		No data available			
sodium silicate		No data available			
alkyl alcohol ethoxylate		No data available			
Alcohols, C10-16, ethoxylated, sulfated, sodium salts (3 EO)		No data available			
sodium hydroxide		No data available			

## Acute inhalative toxicity, continued

Ingredient(s)	ATE - inhalation, dust (mg/l)	ATE - inhalation, mist (mg/l)	ATE - inhalation, vapour (mg/l)	ATE - inhalation, gas (mg/l)
tetrasodium ethylene diamine tetraacetate	Not established	10	Not established	Not established
sodium cumenesulphonate	Not established	Not established	Not established	Not established
sodium alkylbenzenesulphonate	Not established	Not established	Not established	Not established
sodium silicate	Not established	Not established	Not established	Not established
alkyl alcohol ethoxylate	Not established	Not established	Not established	Not established
Alcohols, C10-16, ethoxylated, sulfated, sodium salts (3 EO)	Not established	Not established	Not established	Not established
sodium hydroxide	Not established	Not established	Not established	Not established

## Irritation and corrosivity

## Skin irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
tetrasodium ethylene diamine tetraacetate	Not irritant	Rabbit	OECD 404 (EU B.4)	
sodium cumenesulphonate	Mild irritant	Rabbit	OECD 404 (EU B.4)	
sodium alkylbenzenesulphonate	No data available			
sodium silicate	Corrosive		Method not given	
alkyl alcohol ethoxylate	Not irritant		Weight of evidence	
Alcohols, C10-16, ethoxylated, sulfated, sodium salts (3 EO)	Irritant	Rabbit	OECD 404 (EU B.4)	
sodium hydroxide	Corrosive	Rabbit	Method not given	

## Eye irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
tetrasodium ethylene diamine tetraacetate	Severe damage		Method not given	
sodium cumenesulphonate	Irritant	Rabbit	OECD 405 (EU B.5)	
sodium alkylbenzenesulphonate	No data available			
sodium silicate	Corrosive		Method not given	
alkyl alcohol ethoxylate	Severe damage	Rabbit	Weight of evidence OECD 437	
Alcohols, C10-16, ethoxylated, sulfated, sodium salts (3 EO)	Severe damage	Rabbit	OECD 405 (EU B.5)	
sodium hydroxide	Corrosive	Rabbit	Method not given	

## Respiratory tract irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
tetrasodium ethylene diamine tetraacetate	No data available			
sodium cumenesulphonate	No data available			
sodium alkylbenzenesulphonate	No data available			
sodium silicate	No data available			
alkyl alcohol ethoxylate	No data available			
Alcohols, C10-16, ethoxylated, sulfated, sodium salts (3 EO)	No data available			
sodium hydroxide	No data available			

## Sensitisation

## Sensitisation by skin contact

Ingredient(s)	Result	Species	Method	Exposure time (h)
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tetrasodium ethylene diamine tetraacetate	Not sensitising	Guinea pig	OECD 406 (EU B.6) / GPMT	
sodium cumenesulphonate	Not sensitising	Guinea pig	OECD 406 (EU B.6) / GPMT	
sodium alkylbenzenesulphonate	No data available			
sodium silicate	No data available			
alkyl alcohol ethoxylate	Not sensitising		Weight of evidence	
Alcohols, C10-16, ethoxylated, sulfated, sodium salts (3 EO)	Not sensitising	Guinea pig	OECD 406 (EU B.6)	
sodium hydroxide	Not sensitising		Human repeated patch test	

## Sensitisation by inhalation

Ingredient(s)	Result	Species	Method	Exposure time
tetrasodium ethylene diamine tetraacetate	No data available			
sodium cumenesulphonate	No data available			
sodium alkylbenzenesulphonate	No data available			
sodium silicate	No data available			
alkyl alcohol ethoxylate	No data available			
Alcohols, C10-16, ethoxylated, sulfated, sodium salts (3 EO)	No data available			
sodium hydroxide	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)
tetrasodium ethylene diamine tetraacetate	No evidence for mutagenicity, 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 alkylbenzenesulphonate	No data available		No data available	
sodium silicate	No data available		No data available	
alkyl alcohol ethoxylate	No evidence for mutagenicity, negative test results	OECD 473	No data available	
Alcohols, C10-16, ethoxylated, sulfated, sodium salts (3 EO)	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)

## Carcinogenicity

Ingredient(s)	Effect
tetrasodium ethylene diamine tetraacetate	No evidence for carcinogenicity, weight-of-evidence
sodium cumenesulphonate	No evidence for carcinogenicity, negative test results
sodium alkylbenzenesulphonate	No data available
sodium silicate	No data available
alkyl alcohol ethoxylate	No evidence for carcinogenicity, negative test results
Alcohols, C10-16, ethoxylated, sulfated, sodium salts (3 EO)	No data available
sodium hydroxide	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
tetrasodium ethylene diamine tetraacetate			No data available				No evidence for reproductive toxicity
sodium cumenesulphonate	NOAEL	Teratogenic effects	> 3000	Rat	Non guideline test		
sodium alkylbenzenesulphonate			No data available				
sodium silicate			No data available				
alkyl alcohol ethoxylate	NOAEL		> 250	Rat	Not known		No effects on fertility No developmental toxicity
Alcohols, C10-16, ethoxylated, sulfated, sodium salts (3 EO)			No data available				
sodium hydroxide			No data available				No evidence for developmental toxicity No evidence for reproductive toxicity

## Repeated dose toxicity

Sub-acute or sub-chronic oral toxicity

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Ingredient(s)	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure time (days)	Specific effects and organs affected
tetrasodium ethylene diamine tetraacetate		No data available				
sodium cumenesulphonate	NOAEL	763 - 3534		OECD 408 (EU B.26)	90	
sodium alkylbenzenesulphonate		No data available				
sodium silicate	NOAEL	> 227 - 237	Rat	Method not given		
alkyl alcohol ethoxylate	NOAEL	80 - 400		OECD 408 (EU B.26)		
Alcohols, C10-16, ethoxylated, sulfated, sodium salts (3 EO)	NOAEL	No data available	Rat	OECD 408 (EU B.26)	90	
sodium hydroxide		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
tetrasodium ethylene diamine tetraacetate		No data available				
sodium cumenesulphonate	NOAEL	440	Mouse	Method not given	90	
sodium alkylbenzenesulphonate		No data available				
sodium silicate		No data available				
alkyl alcohol ethoxylate	NOAEL	80		OECD 411 (EU B.28)	90	
Alcohols, C10-16, ethoxylated, sulfated, sodium salts (3 EO)		No data available				
sodium hydroxide		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
tetrasodium ethylene diamine tetraacetate		No data available				
sodium cumenesulphonate		No data available				
sodium alkylbenzenesulphonate		No data available				
sodium silicate		No data available				
alkyl alcohol ethoxylate		No data available				
Alcohols, C10-16, ethoxylated, sulfated, sodium salts (3 EO)		No data available				
sodium hydroxide		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
tetrasodium ethylene diamine tetraacetate			No data available					
sodium cumenesulphonate	Dermal	NOAEL	727	Mouse	Method not given	24 month(s)		
sodium alkylbenzenesulphonate			No data available					
sodium silicate			No data available					
alkyl alcohol ethoxylate			No data available					
Alcohols, C10-16, ethoxylated, sulfated, sodium salts (3 EO)			No data available					
sodium hydroxide			No data available					

## STOT-single exposure

Ingredient(s)	Affected organ(s)
tetrasodium ethylene diamine tetraacetate	No data available
sodium cumenesulphonate	No data available
sodium alkylbenzenesulphonate	No data available

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sodium silicate	No data available
alkyl alcohol ethoxylate	No data available
Alcohols, C10-16, ethoxylated, sulfated, sodium salts (3 EO)	No data available
sodium hydroxide	No data available

STOT-repeated exposure

Ingredient(s)	Affected organ(s)
tetrasodium ethylene diamine tetraacetate	Respiratory tract
sodium cumenesulphonate	No data available
sodium alkylbenzenesulphonate	No data available
sodium silicate	No data available
alkyl alcohol ethoxylate	No data available
Alcohols, C10-16, ethoxylated, sulfated, sodium salts (3 EO)	No data available
sodium hydroxide	No data available

**Aspiration hazard**

Substances with an aspiration hazard (H304), if any, are listed in section 3.

**Potential adverse health effects and symptoms**

Effects and symptoms related to the product, if any, are listed in subsection 4.2.

**11.2 Information on other hazards****11.2.1 Endocrine disrupting properties**

Endocrine disrupting properties - Human data, if available:

**11.2.2 Other information**

No other relevant information available.

**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)
tetrasodium ethylene diamine tetraacetate	LC <sub>50</sub>	> 100	<i>Lepomis macrochirus</i>	OPP 72-1, static (EPA)	96
sodium cumenesulphonate	LC <sub>50</sub>	> 1000	Fish	EPA-OPPTS 850.1075	96
sodium alkylbenzenesulphonate	LC <sub>50</sub>	No data available			
sodium silicate	LC <sub>50</sub>	210	<i>Brachydanio rerio</i>	Method not given	96
alkyl alcohol ethoxylate	LC <sub>50</sub>	5 - 7	Fish	92/69/EEC, C1, semi-static	96
Alcohols, C10-16, ethoxylated, sulfated, sodium salts (3 EO)	LC <sub>50</sub>	> 1 - 10	<i>Brachydanio rerio</i>	OECD 203, flow-through	96
sodium hydroxide	LC <sub>50</sub>	35	Various species	Method not given	96

Aquatic short-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
tetrasodium ethylene diamine tetraacetate	EC <sub>50</sub>	140	<i>Daphnia magna</i> Straus	DIN 38412, Part 11	48
sodium cumenesulphonate	EC <sub>50</sub>	> 1000	<i>Daphnia</i>	EPA-OPPTS 850.1010	48
sodium alkylbenzenesulphonate	EC <sub>50</sub>	1.62	<i>Daphnia magna</i> Straus		48
sodium silicate	EC <sub>50</sub>	1700	<i>Daphnia</i>	Method not given	48
alkyl alcohol ethoxylate	EC <sub>50</sub>	5.3	<i>Daphnia</i>	92/69/EEC	48
Alcohols, C10-16, ethoxylated, sulfated, sodium salts (3 EO)	EC <sub>50</sub>	> 1 - 10	<i>Daphnia magna</i> Straus	OECD 202, static	48
sodium hydroxide	EC <sub>50</sub>	40.4	<i>Ceriodaphnia</i> sp.	Method not given	48

Aquatic short-term toxicity - algae

Ingredient(s)	Endpoint	Value	Species	Method	Exposure
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		(mg/l)			time (h)
tetrasodium ethylene diamine tetraacetate	EC <sub>50</sub>	> 100	<i>Scenedesmus obliquus</i>	88/302/EEC, Part C, static	72
sodium cumenesulphonate	E <sub>r</sub> C <sub>50</sub>	310	Not specified		72
sodium alkylbenzenesulphonate	EC <sub>50</sub>	29	<i>Selenastrum capricornutum</i>		96
sodium silicate	EC <sub>50</sub>	207	<i>Chlorella pyrenoidosa</i>	Method not given	72
alkyl alcohol ethoxylate	EC <sub>50</sub>	1.4 - 47	Not specified	92/69/EEC	72
Alcohols, C10-16, ethoxylated, sulfated, sodium salts (3 EO)	EC <sub>50</sub>	> 1 - 10		OECD 201, static	72
sodium hydroxide	EC <sub>50</sub>	22	<i>Photobacterium phosphoreum</i>	Method not given	0.25

## Aquatic short-term toxicity - marine species

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (days)
tetrasodium ethylene diamine tetraacetate		No data available			
sodium cumenesulphonate		No data available			
sodium alkylbenzenesulphonate		No data available			
sodium silicate		No data available			
alkyl alcohol ethoxylate		No data available			
Alcohols, C10-16, ethoxylated, sulfated, sodium salts (3 EO)		No data available			
sodium hydroxide		No data available			

## Impact on sewage plants - toxicity to bacteria

Ingredient(s)	Endpoint	Value (mg/l)	Inoculum	Method	Exposure time
tetrasodium ethylene diamine tetraacetate	EC <sub>20</sub>	> 500	Activated sludge	OECD 209	0.5 hour(s)
sodium cumenesulphonate	E <sub>r</sub> C <sub>50</sub>	> 1000	Bacteria	OECD 209	3 hour(s)
sodium alkylbenzenesulphonate		No data available			
sodium silicate	EC <sub>50</sub>	> 100	Activated sludge	Method not given	3 hour(s)
alkyl alcohol ethoxylate	EC <sub>50</sub>	> 140	Bacteria	DIN EN ISO 8192-OECD 209-88/302/EEC	3 hour(s)
Alcohols, C10-16, ethoxylated, sulfated, sodium salts (3 EO)	EC <sub>10</sub>	> 10000	<i>Pseudomonas putida</i>		
sodium hydroxide		No data available			

## Aquatic long-term toxicity

## Aquatic long-term toxicity - fish

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
tetrasodium ethylene diamine tetraacetate	NOEC	> 25.7	<i>Brachydanio rerio</i>	OECD 210	35 day(s)	
sodium cumenesulphonate		No data available				
sodium alkylbenzenesulphonate		No data available				
sodium silicate		No data available				
alkyl alcohol ethoxylate	EC <sub>10</sub>	8.983	Not specified	Method not given	21 day(s)	
Alcohols, C10-16, ethoxylated, sulfated, sodium salts (3 EO)		No data available				
sodium hydroxide		No data available				

## Aquatic long-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
tetrasodium ethylene diamine tetraacetate	NOEC	25	<i>Daphnia magna</i>	OECD 211	21 day(s)	
sodium cumenesulphonate		No data available				
sodium alkylbenzenesulphonate		No data available				

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sodium silicate		No data available				
alkyl alcohol ethoxylate	EC <sub>10</sub>	2.579	<i>Daphnia sp.</i>	Method not given	21 day(s)	
Alcohols, C10-16, ethoxylated, sulfated, sodium salts (3 EO)		No data available				
sodium hydroxide		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
tetrasodium ethylene diamine tetraacetate		No data available				
sodium cumenesulphonate		No data available				
sodium alkylbenzenesulphonate		No data available				
sodium silicate		No data available				
alkyl alcohol ethoxylate		No data available				
Alcohols, C10-16, ethoxylated, sulfated, sodium salts (3 EO)		No data available				
sodium hydroxide		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
tetrasodium ethylene diamine tetraacetate	LD <sub>50</sub>	156	<i>Eisenia fetida</i>	OECD 207	14	
sodium cumenesulphonate		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
tetrasodium ethylene diamine tetraacetate	NOEC	0.25 - 1.25			21	
sodium cumenesulphonate		No data available				
sodium hydroxide		No data available				

Terrestrial toxicity - birds, if available:

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

**12.2 Persistence and degradability**

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**Abiotic degradation**

Abiotic degradation - photodegradation in air, if available:

Ingredient(s)	Half-life time	Method	Evaluation	Remark
tetrasodium ethylene diamine tetraacetate	No data available			
sodium cumenesulphonate	No data available			
sodium hydroxide	13 second(s)	Method not given	Rapidly photodegradable	

Abiotic degradation - hydrolysis, if available:

Ingredient(s)	Half-life time in fresh water	Method	Evaluation	Remark
tetrasodium ethylene diamine tetraacetate	No data available			
sodium cumenesulphonate	No data available			
sodium hydroxide	No data available			

Abiotic degradation - other processes, if available:

Ingredient(s)	Type	Half-life time	Method	Evaluation	Remark
tetrasodium ethylene diamine tetraacetate		No data available			
sodium cumenesulphonate		No data available			
sodium hydroxide		No data available			

**Biodegradation**

Ready biodegradability - aerobic conditions

Ingredient(s)	Inoculum	Analytical method	DT <sub>50</sub>	Method	Evaluation
tetrasodium ethylene diamine tetraacetate					Not readily biodegradable.
sodium cumenesulphonate	Activated sludge, aerobe	CO <sub>2</sub> production	100 % in 28 day(s)	OECD 301B	Readily biodegradable
sodium alkylbenzenesulphonate				OECD 301B	Readily biodegradable
sodium silicate					Not applicable (inorganic substance)
alkyl alcohol ethoxylate				OECD 301B	Readily biodegradable
Alcohols, C10-16, ethoxylated, sulfated, sodium salts (3 EO)			> 60 % in 28 day(s)	OECD 301B	Readily biodegradable
sodium hydroxide					Not applicable (inorganic substance)

Ready biodegradability - anaerobic and marine conditions, if available:

Ingredient(s)	Medium & Type	Analytical method	DT <sub>50</sub>	Method	Evaluation
tetrasodium ethylene diamine tetraacetate					No data available
sodium cumenesulphonate					No data available
sodium hydroxide					No data available

Degradation in relevant environmental compartments, if available:

Ingredient(s)	Medium & Type	Analytical method	DT <sub>50</sub>	Method	Evaluation
tetrasodium ethylene diamine tetraacetate					No data available
sodium cumenesulphonate					No data available
sodium hydroxide					No data available

**12.3 Bioaccumulative potential**

Partition coefficient n-octanol/water (log Kow)

Ingredient(s)	Value	Method	Evaluation	Remark
tetrasodium ethylene diamine tetraacetate	-13	Method not given	No bioaccumulation expected	
sodium cumenesulphonate	-1.1	Method not given	Low potential for bioaccumulation	
sodium alkylbenzenesulphonate	No data available			
sodium silicate	No data available			
alkyl alcohol ethoxylate	3.11 - 4.19	Method not given	High potential for bioaccumulation	
Alcohols, C10-16, ethoxylated, sulfated, sodium salts (3 EO)	No data available			
sodium hydroxide	No data available		Not relevant, does not bioaccumulate	

Bioconcentration factor (BCF)

Ingredient(s)	Value	Species	Method	Evaluation	Remark
tetrasodium ethylene	1.8	<i>Lepomis</i>	Method not given	Low potential for bioaccumulation	

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diamine tetraacetate		<i>macrochirus</i>			
sodium cumenesulphonate	No data available				
sodium alkylbenzenesulphonate	No data available				
sodium silicate	No data available				
alkyl alcohol ethoxylate	< 500		Method not given	High potential for bioaccumulation	
Alcohols, C10-16, ethoxylated, sulfated, sodium salts (3 EO)	No data available				
sodium hydroxide	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
tetrasodium ethylene diamine tetraacetate	No data available				Adsorption to solid soil phase is not expected
sodium cumenesulphonate	No data available				
sodium alkylbenzenesulphonate	No data available				
sodium silicate	No data available				
alkyl alcohol ethoxylate	No data available				Potential for mobility in soil, soluble in water
Alcohols, C10-16, ethoxylated, sulfated, sodium salts (3 EO)	No data available				
sodium hydroxide	No data available				Mobile in soil

**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 Endocrine disrupting properties**

Endocrine disrupting properties - Environmental effects, if available:

**12.7 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.  
20 01 15\* - alkalines.

**European Waste Catalogue:****Empty packaging****Recommendation:**

Dispose of observing national or local regulations.

**SECTION 14: Transport information****Land transport (ADR/RID), Sea transport (IMDG), Air transport (ICAO-TI / IATA-DGR)****14.1 UN number:** 1760**14.2 UN proper shipping name:**

Corrosive liquid, n.o.s. ( disodium trioxosilicate , trisodium methylglycinediacetate )

**14.3 Transport hazard class(es):****Transport hazard class (and subsidiary risks):** 8**14.4 Packing group:** III**14.5 Environmental hazards:****Environmentally hazardous:** No**Marine pollutant:** No**14.6 Special precautions for user:** None known.**14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code:** The product is not transported in bulk tankers.

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**Other relevant information:****ADR**

Classification code: C9

Tunnel restriction code: E

Hazard identification number: 80

**IMO/MDG**

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 :**

- Regulation (EC) 1907/2006 - REACH (UK amended)
- Regulation (EC) 1272/2008 - CLP (UK amended)
- Regulation (EC) 648/2004 - Detergents regulation (UK amended)
- Delegated Regulation (EU) 2017/2100 and Regulation (EU) 2018/605 (UK amended)
- Agreement concerning the International Carriage of Dangerous Goods by Road (ADR)
- International Maritime Dangerous Goods (IMDG) Code

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

**Ingredients according to Detergents Regulation**

EDTA and salts thereof, anionic surfactants

5 - 15 %

non-ionic surfactants, NTA (nitrilotriacetic acid) and salts thereof

&lt; 5 %

The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) 648/2004 on detergents (UK amended). Data to support this assertion are held at the disposal of the competent authorities of the UK and will be made available to them, at their direct request or at the request of a detergent manufacturer.

**Comah - classification:** Not classified

**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:** MS1004949**Version:** 01.0**Revision:** 2022-01-09**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.
- 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.
- H335 - May cause respiratory irritation.
- 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
- ATE - Acute Toxicity Estimate
- DNEL - Derived No Effect Limit
- EC50 - effective concentration, 50%
- ERC - Environmental release categories



**ZENITH TFR1000 TRAFFIC FILM REMOVER**

- EUH - CLP Specific hazard statement
- LC50 - Lethal Concentration, 50% / Median Lethal Concentration
- LCS - Life cycle stage
- LD50 - Lethal Dose, 50% / Median Lethal dose
- NOAEL - No observed adverse effect level
- NOEL - No observed effect level
- OECD - Organization for Economic Cooperation and Development
- PBT - Persistent, Bioaccumulative and Toxic
- PNEC - Predicted No Effect Concentration
- PROC - Process categories
- REACH number - REACH registration number, without supplier specific part
- vPvB - very Persistent and very Bioaccumulative

**End of Safety Data Sheet**