

# Safety Data Sheet

According to Regulation (EC) No 1907/2006

# **EnduroSuper VE3**

**Revision:** 2023-08-16 **Version:** 04.1

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

#### 1.1 Product identifier

Trade name: EnduroSuper VE3

UFI: 9UM2-40CC-G00H-3QT8

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

Product use: Open plant cleaning chemical. For industrial use only..

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

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

AISE\_SWED\_PW\_8a\_1 AISE\_SWED\_IS\_8b\_1 AISE\_SWED\_IS\_4\_1 AISE\_SWED\_IS\_7\_4 AISE\_SWED\_IS\_7\_5

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

Diversey Europe Operations BV, Maarssenbroeksedijk 2, 3542DN Utrecht, The Netherlands

#### **Contact details**

Diversey Ltd

Weston Favell Centre, Northampton NN3 8PD, United Kingdom

Tel: 01604 405311, Fax: 01604 406809

 $Regulatory\ Email:\ customerservice.uk@diversey.com$ 

# 1.4 Emergency telephone number

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. 1A (H314) Eye Dam. 1 (H318) Aquatic Chronic 3 (H412) Met. Corr. 1 (H290)

### 2.2 Label elements



Signal word: Danger.

Contains sodium hydroxide (Sodium Hydroxide), tetrasodium ethylene diamine tetraacetate (Tetrasodium EDTA), N,N-dimethyltetradecylamine N-oxide (Myristamine Oxide), ethanol, 2,2'-iminobis-, N-tallow alkyl derivs., N-oxides (Dihydroxyethyl Tallowamine Oxide)

# Hazard statements:

H290 - May be corrosive to metals.

H314 - Causes severe skin burns and eye damage.

H412 - Harmful to aquatic life with long lasting effects.

#### 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
sodium hydroxide	215-185-5	1310-73-2	01-2119457892-27	Skin Corr. 1A (H314) Met. Corr. 1 (H290)		3-10
Propan-2-ol	200-661-7	67-63-0	01-2119457558-25	Flam. Liq. 2 (H225) STOT SE 3 (H336) Eye Irrit. 2 (H319)		3-10
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)		3-10
N,N-dimethyltetradecylamine N-oxide	222-059-3	3332-27-2	01-2119949262-37	Acute Tox. 4 (H302) Skin Irrit. 2 (H315) Eye Dam. 1 (H318) Aquatic Acute 1 (H400) Aquatic Chronic 2 (H411)		1-3
ethanol, 2,2'-iminobis-, N-tallow alkyl derivs., N-oxides	263-179-6	61791-46-6	01-2120770736-44	Eye Dam. 1 (H318) Aquatic Acute 1 (H400) Aquatic Chronic 2 (H411)		1-3

#### Specific concentration limits

sodium hydroxide:

• Eye Dam. 1 (H318) >= 2% > 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.

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 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.

Inhalation: Remove person to fresh air and keep comfortable for breathing. 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 reuse. Immediately call a POISON

CENTRE, doctor or physician.

Hold eyelids apart and flush eyes with plenty of lukewarm water for at least 15 minutes. Remove Eye contact:

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

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

#### 6.2 Environmental precautions

Dilute with plenty of water. Do not allow to enter drainage system, surface or ground water. Do not allow to enter the ground/soil. Inform responsible authorities in case undiluted product reaches drainage system, surface or ground water or the ground/soil.

#### 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). 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 unless adviced by Diversey. 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. Do not breathe spray. 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>
Propan-2-ol	400 ppm 999 mg/m³	500 ppm 1250 mg/m <sup>3</sup>

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

Ingredient(s)	Short term - Local	Short term - Systemic	Long term - Local	Long term - Systemic
ingredient(3)	Official Local	CHOIL CLIN CYSICING	Long term Local	Long term by sterme

	effects	effects	effects	effects
sodium hydroxide	-	-	-	-
Propan-2-ol	-	-	-	26
tetrasodium ethylene diamine tetraacetate	-	-	-	25
N,N-dimethyltetradecylamine N-oxide	-	-	-	0.44
ethanol, 2,2'-iminobis-, N-tallow alkyl derivs., N-oxides	-	-	=	-

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)
sodium hydroxide	2 %	-	-	-
Propan-2-ol	-	-	-	888
tetrasodium ethylene diamine tetraacetate	-	-	-	-
N,N-dimethyltetradecylamine N-oxide	-	-	-	11
ethanol, 2,2'-iminobis-, N-tallow alkyl derivs., N-oxides	-	-	-	0.3

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)
sodium hydroxide	2 %	-	-	-
Propan-2-ol	-	-	-	319
tetrasodium ethylene diamine tetraacetate	-	-	-	-
N,N-dimethyltetradecylamine N-oxide	-	-	-	5.5
ethanol, 2,2'-iminobis-, N-tallow alkyl derivs., N-oxides	No data available	-	-	-

DNEL/DMEL inhalatory exposure - Worker (mg/m³)

Ingredient(s)	Short term - Local effects	Short term - Systemic effects	Long term - Local effects	Long term - Systemic effects
sodium hydroxide	-	-	1	-
Propan-2-ol	-	-	-	500
tetrasodium ethylene diamine tetraacetate	3	3	1.5	1.5
N,N-dimethyltetradecylamine N-oxide	-	-	-	6.2
ethanol, 2,2'-iminobis-, N-tallow alkyl derivs., N-oxides	-	-	-	1.48

DNEL/DMEL inhalatory exposure - Consumer (mg/m³)

Ingredient(s)	Short term - Local effects	Short term - Systemic effects	Long term - Local effects	Long term - Systemic effects
sodium hydroxide	-	-	1	-
Propan-2-ol	-	-	-	89
tetrasodium ethylene diamine tetraacetate	1.2	1.2	0.6	-
N,N-dimethyltetradecylamine N-oxide	-	-	-	1.53
ethanol, 2,2'-iminobis-, N-tallow alkyl derivs., N-oxides	-	-	-	-

#### **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)
sodium hydroxide	-	-	-	-
Propan-2-ol	140.9	140.9	140.9	2251
tetrasodium ethylene diamine tetraacetate	2.2	0.22	1.2	43
N,N-dimethyltetradecylamine N-oxide	0.0335	0.00335	0.0335	24
ethanol, 2,2'-iminobis-, N-tallow alkyl derivs., N-oxides	0.000356	0.000036	0.00047	3.43

Environmental exposure - PNEC, continued

Ingredient(s)	Sediment, freshwater (mg/kg)	Sediment, marine (mg/kg)	Soil (mg/kg)	Air (mg/m³)
sodium hydroxide	-	-	-	-
Propan-2-ol	552	552	28	-
tetrasodium ethylene diamine tetraacetate	-	-	0.72	-
N,N-dimethyltetradecylamine N-oxide	5.24	0.524	1.02	-
ethanol, 2,2'-iminobis-, N-tallow alkyl derivs., N-oxides	1.7	0.17	0.81	-

# 8.2 Exposure controls

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

Recommended safety measures for handling the <u>undiluted</u> product:

If the product is diluted by using specific dosing systems with no risk of splashes or direct skin Appropriate engineering controls:

> 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.

REACH use scenarios considered for the undiluted product:

	SWED - Sector-specific	LCS	PROC	Duration	ERC
	worker exposure			(min)	
	description				
Automatic transfer and dilution	AISE_SWED_IS_8b_1	IS	PROC 8b	60	ERC4
Manual transfer and dilution	AISE_SWED_PW_8a_1	PW	PROC 8a	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

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

**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. Apply technical

measures to comply with the occupational exposure limits, if available.

**Environmental exposure controls:** Should not reach sewage water or drainage ditch undiluted or unneutralised.

Recommended safety measures for handling the <u>diluted</u> product:

Recommended maximum concentration (% w/w): 10

Provide a good standard of general ventilation. Ensure that foam equipment does not generate Appropriate engineering controls:

respirable particles.

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

REACH use scenarios considered for the diluted product:

	SWED	LCS	PROC	Duration	ERC
				(min)	
Automatic application in a dedicated system	AISE_SWED_IS_4_1	IS	PROC 4	480	ERC8a
Foam spraying	AISE_SWED_IS_7_4	IS	PROC 7	480	ERC4
Spray application	AISE_SWED_IS_7_5				

Personal protective equipment

Eye / face protection:

Safety glasses are not normally required. However, their use is recommended in those cases where

splashes may occur when handling the product (EN 166). Safety glasses or goggles (EN 166) are

always recommended for foam applications.

Chemical-resistant protective gloves (EN 374) are always recommended for foam applications. Hand protection:

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

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

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

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

aerosols should be avoided.

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

### SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Information in this section refers to the product, unless it is specifically stated that substance data is listed

Method / remark

Physical state: Liquid

Colour: Clear , from Yellow to Amber

Odour threshold: Not applica

Odour threshold: Not applicable

Melting point/freezing point (°C): Not determined Not relevant to classification of this product

Initial boiling point and boiling range (°C): Not determined See substance data

Substance data, boiling point

Ingredient(s)	Value (°C)	Method	Atmospheric pressure (hPa)
sodium hydroxide	> 990	Method not given	
Propan-2-ol	82	Method not given	1013
tetrasodium ethylene diamine tetraacetate	No data available	Non-experimental data	
N,N-dimethyltetradecylamine N-oxide	100	Method not given	
ethanol, 2,2'-iminobis-, N-tallow alkyl derivs., N-oxides	No data available		

Method / remark

Weight of evidence

closed cup

Flammability (solid, gas): Not applicable to liquids

Flammability (liquid): Not flammable.

Flash point (°C): > 45 °C

Sustained combustion: The product does not sustain combustion

( UN Manual of Tests and Criteria, section 32, L.2 )

Lower and upper explosion limit/flammability limit (%): Not determined See substance data

Substance data, flammability or explosive limits, if available:

Ingredient(s)	Lower limit (% vol)	Upper limit (% vol)
Propan-2-ol	2	13

#### Method / remark

Autoignition temperature: Not determined Decomposition temperature: Not applicable.

**pH:** >= 11.5 (neat) ISO 4316 **Dilution pH:** > 11 (10 %) ISO 4316

Kinematic viscosity: Not determined DM-006 Viscosity - Additional

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
Propan-2-ol	Soluble	Method not given	
tetrasodium ethylene diamine tetraacetate	500	Method not given	20
N,N-dimethyltetradecylamine N-oxide	Soluble		
ethanol, 2,2'-iminobis-, N-tallow alkyl derivs., N-oxides	No data available		

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

# Method / remark

See substance data

Substance data, vapour pressure

Vapour pressure: Not determined

Relative density: ≈ 1.12 (20 °C)

Relative vapour density: No data available.

Particle characteristics: No data available.

Ingredient(s)	Value (Pa)	Method	Temperature (°C)
sodium hydroxide	< 1330	Method not given	20
Propan-2-ol	4200	Method not given	20
tetrasodium ethylene diamine tetraacetate	0.0000000002	Read across	25
N,N-dimethyltetradecylamine N-oxide	230	Method not given	25
ethanol, 2,2'-iminobis-, N-tallow alkyl derivs., N-oxides	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. Vapours may form explosive mixtures with air. **Oxidising properties:** Not oxidising.

Corrosion to metals: Corrosive

#### 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 hazard classes as defined in Regulation (EC) No 1272/2008

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)
sodium hydroxide		No data available				Not established
Propan-2-ol	LD 50	5840	Rat	OECD 401 (EU B.1)		Not established
tetrasodium ethylene diamine tetraacetate	LD 50	1780	Rat	OECD 401 (EU B.1)		1780
N,N-dimethyltetradecylamine N-oxide	LD 50	> 300-2000	Rat	OECD 401 (EU B.1)		Not established
ethanol, 2,2'-iminobis-, N-tallow alkyl derivs., N-oxides	LD 50	> 2000	Rat	Read across		Not established

Acute dermal toxicity

Ingredient(s)	Endpoint	Value (mg/kg)	Species	Method	Exposure time (h)	ATE (mg/kg)
sodium hydroxide	LD 50	1350	Rabbit	Method not given		Not established
Propan-2-ol	LD 50	> 2000	Rabbit	Method not given		Not established
tetrasodium ethylene diamine tetraacetate	LD 50	> 5000	Rabbit	Method not given		Not established
N,N-dimethyltetradecylamine N-oxide		No data available				Not established
ethanol, 2,2'-iminobis-, N-tallow alkyl derivs., N-oxides	LD 50	> 2000	Rat	Read across		Not established

Acute inhalative toxicity

Ingredient(s)	Endpoint	Value	Species	Method	Exposure
		(mg/l)			time (h)
sodium hydroxide		No data			
		available			
Propan-2-ol	LC 50	> 25 (vapour)	Rat	OECD 403 (EU B.2)	6

tetrasodium ethylene diamine tetraacetate	LC 50	≥ 1-5 (dust)	Rat	OECD 403 (EU B.2)	6
N,N-dimethyltetradecylamine N-oxide		No data			
		available			
ethanol, 2,2'-iminobis-, N-tallow alkyl derivs., N-oxides		No data			
		available			

Acute inhalative toxicity, continued

Ingredient(s)	ATE - inhalation, dust	ATE - inhalation, mist	ATE - inhalation,	ATE - inhalation, gas
	(mg/l)	(mg/l)	vapour (mg/l)	(mg/l)
sodium hydroxide	Not established	Not established	Not established	Not established
Propan-2-ol	Not established	Not established	Not established	Not established
tetrasodium ethylene diamine tetraacetate	Not established	Not established	Not established	Not established
N,N-dimethyltetradecylamine N-oxide	Not established	Not established	Not established	Not established
ethanol, 2,2'-iminobis-, N-tallow alkyl derivs., N-oxides	Not established	Not established	Not established	Not established

# Irritation and corrosivity Skin irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
sodium hydroxide	Corrosive	Rabbit	Method not given	
Propan-2-ol	Not irritant	Rabbit	OECD 404 (EU B.4)	
tetrasodium ethylene diamine tetraacetate	Not irritant	Rabbit	OECD 404 (EU B.4)	
N,N-dimethyltetradecylamine N-oxide	Irritant	Rabbit	OECD 404 (EU B.4)	
ethanol, 2,2'-iminobis-, N-tallow alkyl derivs., N-oxides	Not irritant			

Eye irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
sodium hydroxide	Corrosive	Rabbit	Method not given	
Propan-2-ol	Irritant	Rabbit	OECD 405 (EU B.5)	
tetrasodium ethylene diamine tetraacetate	Severe damage		Method not given	
N,N-dimethyltetradecylamine N-oxide	Severe damage	Rabbit	OECD 405 (EU B.5)	
ethanol, 2,2'-iminobis-, N-tallow alkyl derivs., N-oxides	Severe damage	Rabbit	OECD 405 (EU B.5)	
			Read across	

Respiratory tract irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
sodium hydroxide	No data available			
Propan-2-ol	No data available			
tetrasodium ethylene diamine tetraacetate	No data available			
N,N-dimethyltetradecylamine N-oxide	No data available			
ethanol, 2,2'-iminobis-, N-tallow alkyl derivs., N-oxides	No data available			

**Sensitisation**Sensitisation by skin contact

Ingredient(s)	Result	Species	Method	Exposure time (h)
sodium hydroxide	Not sensitising		Human repeated patch test	
Propan-2-ol	Not sensitising	Guinea pig	OECD 406 (EU B.6) / Buehler test	
tetrasodium ethylene diamine tetraacetate	Not sensitising	Guinea pig	OECD 406 (EU B.6) / GPMT	
N,N-dimethyltetradecylamine N-oxide	No data available			
ethanol, 2,2'-iminobis-, N-tallow alkyl derivs., N-oxides	Not sensitising	Guinea pig	OECD 406 (EU B.6) / Buehler test Read across	

Sensitisation by inhalation

Ingredient(s)	Result	Species	Method	Exposure time
sodium hydroxide	No data available			
Propan-2-ol	No data available			
tetrasodium ethylene diamine tetraacetate	No data available			
N,N-dimethyltetradecylamine N-oxide	No data available			
ethanol, 2,2'-iminobis-, N-tallow alkyl derivs., N-oxides	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	DNA repair test	No evidence for mutagenicity, negative	,
	test results	on rat	test results	B.12) OECD

		hepatocytes OECD 473		475 (EU B.11)
	No evidence for mutagenicity, negative test results No evidence of genotoxicity, negative test results		No evidence of genotoxicity, negative test results	OECD 474 (EU B.12)
	No evidence for mutagenicity, negative test results		No evidence of genotoxicity, negative test results	Method not given
N,N-dimethyltetradecylamine N-oxide	No data available		No data available	
	No evidence for mutagenicity, negative test results	OECD 471 (EU B.12/13) Read across	No evidence of genotoxicity, negative test results	OECD 475 (EU B.11) OECD 478 Read across

Carcinogenicity

Carcinogenicity	
Ingredient(s)	Effect
sodium hydroxide	No evidence for carcinogenicity, weight-of-evidence
Propan-2-ol	No evidence for carcinogenicity, negative test results
tetrasodium ethylene diamine tetraacetate	No evidence for carcinogenicity, weight-of-evidence
N,N-dimethyltetradecylamine N-oxide	No data available
ethanol, 2,2'-iminobis-, N-tallow alkyl derivs., N-oxides	No evidence for carcinogenicity, negative test results

Toxicity for reproduction

l oxicity 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
Propan-2-ol			No data available				
tetrasodium ethylene diamine tetraacetate			No data available				No evidence for reproductive toxicity
N,N-dimethyltetradecyl amine N-oxide			No data available				
ethanol, 2,2'-iminobis-, N-tallow alkyl derivs., N-oxides	NOAEL	Developmental toxicity Teratogenic effects	25	Rat	Read across		No evidence for developmental 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				
Propan-2-ol		No data				
		available				
tetrasodium ethylene diamine tetraacetate		No data				
		available				
N,N-dimethyltetradecylamine N-oxide		No data				
		available				
ethanol, 2,2'-iminobis-, N-tallow alkyl derivs., N-oxides		No data				
		available				

Sub-chronic dermal toxicity

Ingredient(s)	Endpoint	Value	Species	Method		Specific effects and organs
		(mg/kg bw/d)			time (days)	affected
sodium hydroxide		No data				
		available				
Propan-2-ol		No data				
		available				
tetrasodium ethylene diamine tetraacetate		No data				
·		available				
N,N-dimethyltetradecylamine N-oxide		No data				
		available				
ethanol, 2,2'-iminobis-, N-tallow alkyl derivs., N-oxides		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				
Propan-2-ol		No data available				
tetrasodium ethylene diamine tetraacetate		No data available				
N,N-dimethyltetradecylamine N-oxide		No data available				

ethanol, 2,2'-iminobis-, N-tallow alkyl derivs., N-oxides	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					
Propan-2-ol			No data available					
tetrasodium ethylene diamine tetraacetate			No data available					
N,N-dimethyltetradecyl amine N-oxide			No data available					
ethanol, 2,2'-iminobis-, N-tallow alkyl derivs., N-oxides			No data available					

STOT-single exposure

Ingredient(s)	Affected organ(s)
sodium hydroxide	No data available
Propan-2-ol	Central nervous system
tetrasodium ethylene diamine tetraacetate	No data available
N,N-dimethyltetradecylamine N-oxide	No data available
ethanol, 2,2'-iminobis-, N-tallow alkyl derivs., N-oxides	Not applicable

STOT-repeated exposure

Ingredient(s)	Affected organ(s)
sodium hydroxide	No data available
Propan-2-ol	No data available
tetrasodium ethylene diamine tetraacetate	Respiratory tract
N,N-dimethyltetradecylamine N-oxide	No data available
ethanol, 2,2'-iminobis-, N-tallow alkyl derivs., N-oxides	Not applicable

### **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

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
sodium hydroxide	LC 50	35	Various species	Method not given	96
Propan-2-ol	LC 50	> 100	Pimephales promelas	Method not given	48
tetrasodium ethylene diamine tetraacetate	LC 50	> 100	Lepomis macrochirus	OPP 72-1, static (EPA)	96
N,N-dimethyltetradecylamine N-oxide	LC 50	1-10	Brachydanio rerio	OECD 203, semi-static	96
ethanol, 2,2'-iminobis-, N-tallow alkyl derivs., N-oxides	LC 50	> 0.1 - 1	Brachydanio rerio	OECD 203 (EU C.1)	96

Aquatic short-term toxicity - crustacea

Ingredient(s)	Endpoint	Value	Species	Method	Exposure
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		(mg/l)			time (h)
sodium hydroxide	EC 50	40.4	Ceriodaphnia	Method not given	48
			sp.		
Propan-2-ol	EC 50	> 100	Daphnia	Method not given	48
			magna Straus		
tetrasodium ethylene diamine tetraacetate	EC 50	140	Daphnia	DIN 38412, Part 11	48
			magna Straus		
N,N-dimethyltetradecylamine N-oxide	EC 50	> 1-10	Daphnia	OECD 202, static	48
			magna Straus		
ethanol, 2,2'-iminobis-, N-tallow alkyl derivs., N-oxides	EC 50	0.082	Daphnia	OECD 202, static	48
·			magna Straus		

Aquatic short-term toxicity - algae

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
sodium hydroxide	EC 50	22	Photobacteriu m phosphoreum	Method not given	0.25
Propan-2-ol	EC 50	> 100	Scenedesmus quadricauda	Method not given	72
tetrasodium ethylene diamine tetraacetate	EC 50	> 100	Scenedesmus obliquus	88/302/EEC, Part C, static	72
N,N-dimethyltetradecylamine N-oxide	EC 50	0.19	Pseudokirchner iella subcapitata	Read across	72
ethanol, 2,2'-iminobis-, N-tallow alkyl derivs., N-oxides	Er C 50	0.1-1	Pseudokirchner iella subcapitata	OECD 201 (EU C.3)	72

Aquatic short-term toxicity - marine species

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (days)
sodium hydroxide		No data available			
Propan-2-ol		No data available			
tetrasodium ethylene diamine tetraacetate		No data available			
N,N-dimethyltetradecylamine N-oxide		No data available			
ethanol, 2,2'-iminobis-, N-tallow alkyl derivs., N-oxides		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			
Propan-2-ol	EC 50	> 1000	Activated sludge	Method not given	
tetrasodium ethylene diamine tetraacetate	EC 20	> 500	Activated sludge	OECD 209	0.5 hour(s)
N,N-dimethyltetradecylamine N-oxide	EC 50	56	Pseudomonas putida	DIN 38412 / Part 8 Read across	
ethanol, 2,2'-iminobis-, N-tallow alkyl derivs., N-oxides	EC 10	24	Pseudomonas putida	Read across	18 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				
Propan-2-ol		No data available				
tetrasodium ethylene diamine tetraacetate	NOEC	> 25.7	Brachydanio rerio	OECD 210	35 day(s)	
N,N-dimethyltetradecylamine N-oxide		No data available				
ethanol, 2,2'-iminobis-, N-tallow alkyl derivs., N-oxides	NOEC	0.42	Pimephales promelas	Read across		

Aquatic long-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
sodium hydroxide		No data				
		available				
Propan-2-ol		No data				

		available				
tetrasodium ethylene diamine tetraacetate	NOEC	25	Daphnia	OECD 211	21 day(s)	
			magna			
N,N-dimethyltetradecylamine N-oxide		No data				
		available				
ethanol, 2,2'-iminobis-, N-tallow alkyl derivs., N-oxides	NOEC	< 0.1	Daphnia	OECD 211	21 day(s)	
			magna		1	

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				
Propan-2-ol		No data available				
tetrasodium ethylene diamine tetraacetate		No data available				
N,N-dimethyltetradecylamine N-oxide		No data available				
ethanol, 2,2'-iminobis-, N-tallow alkyl derivs., N-oxides		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				
Propan-2-ol		No data available				
tetrasodium ethylene diamine tetraacetate	LD 50	156	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
sodium hydroxide		No data available				
Propan-2-ol		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				
Propan-2-ol		No data				
		available				

Terrestrial toxicity - beneficial insects if available:

refrestrial 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				
Propan-2-ol		No data available				

Terrestrial toxicity - soil bacteria, if available:

refrestrial toxicity - soil bacteria, il avallable.						
Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
sodium hydroxide		No data available				
Propan-2-ol		No data available				

# 12.2 Persistence and degradability

Abiotic degradation
Abiotic degradation - photodegradation in air, if available:

Abiotic degradation - protodegradation in air, ir a	valiable.			
Ingredient(s)	Half-life time	Method	Evaluation	Remark
sodium hydroxide	13 second(s)	Method not given	Rapidly photodegradable	
Propan-2-ol	No data available			

tetrasodium ethylene diamine tetraacetate	No data available		

Abiotic degradation - hydrolysis, if available:

Ingredient(s)	Half-life time in fresh	Method	Evaluation	Remark
	water			
sodium hydroxide	No data available			
Propan-2-ol	No data available			
tetrasodium ethylene diamine tetraacetate	No data available			

Abiotic degradation - other processes, if available:

Ingredient(s)	Туре	Half-life time	Method	Evaluation	Remark
sodium hydroxide		No data available			
Propan-2-ol		No data available			
tetrasodium ethylene diamine tetraacetate		No data available			

**Biodegradation**Ready biodegradability - aerobic conditions

Ingredient(s)	Inoculum	Analytical method	DT 50	Method	Evaluation
sodium hydroxide					Not applicable (inorganic substance)
Propan-2-ol			95 % in 21 day(s)	OECD 301E	Readily biodegradable
tetrasodium ethylene diamine tetraacetate				Weight of evidence	Not readily biodegradable. Inherently biodegradable.
N,N-dimethyltetradecylamine N-oxide	Activated sludge, aerobe	CO <sub>2</sub> production	> 60 % in 28 day(s)	OECD 301B	Readily biodegradable
ethanol, 2,2'-iminobis-, N-tallow alkyl derivs., N-oxides		Oxygen depletion	> 60%	OECD 301D	Readily biodegradable

Ready biodegradability - anaerobic and marine conditions, if available:

Ingredient(s)	Medium & Type	Analytical method	DT 50	Method	Evaluation
sodium hydroxide					No data available
Propan-2-ol					No data available
tetrasodium ethylene diamine tetraacetate					No data available

Degradation in relevant environmental compartments, if available:

Ingredient(s)	Medium & Type	Analytical method	DT 50	Method	Evaluation
sodium hydroxide					No data available
Propan-2-ol					No data available
tetrasodium ethylene diamine tetraacetate					No data available

**12.3 Bioaccumulative potential**Partition coefficient n-octanol/water (log Kow)

Ingredient(s)	Value	Method	Evaluation	Remark
sodium hydroxide	No data available		Not relevant, does not	
			bioaccumulate	
Propan-2-ol	0.05	OECD 107	No bioaccumulation expected	
tetrasodium ethylene diamine tetraacetate	-3.86	Method not given	No bioaccumulation expected	
N,N-dimethyltetradecylamine N-oxide	No data available		No bioaccumulation expected	
ethanol, 2,2'-iminobis-, N-tallow alkyl derivs., N-oxides	No data available		No bioaccumulation expected	

Bioconcentration factor (BCF)

Ingredient(s)	Value	Species	Method	Evaluation	Remark
sodium hydroxide	No data available				
Propan-2-ol	No data available				
tetrasodium ethylene diamine tetraacetate	1.8	Lepomis macrochirus	OECD 305	Low potential for bioaccumulation	
N,N-dimethyltetradecyl amine N-oxide	No data available				
ethanol, 2,2'-iminobis-, N-tallow alkyl derivs., N-oxides	-			Not relevant, does not bioaccumulate	

12.4 Mobility in soil
Adsorption/Desorption to soil or sediment

Adderption bedorption to doi: or dodiment									
	Ingredient(s)	Adsorption	Desorption	Method	Soil/sediment	Evaluation			

	coefficient Log Koc	coefficient Log Koc(des)	type	
sodium hydroxide	No data available			Mobile in soil
Propan-2-ol	No data available			Potential for mobility in soil, soluble in water
tetrasodium ethylene diamine tetraacetate	No data available			Adsorption to solid soil phase is not expected
N,N-dimethyltetradecylamine N-oxide	No data available			
ethanol, 2,2'-iminobis-, N-tallow alkyl derivs., N-oxides	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 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

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 or ID number: 1824 14.2 UN proper shipping name:

Sodium hydroxide solution

14.3 Transport hazard class(es):

Transport hazard class (and subsidiary risks): 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 Maritime transport in bulk according to IMO instruments: 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:

- 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, non-ionic surfactants, soap, NTA (nitrilotriacetic acid) and salts thereof < 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:** MS1002672 Revision: 2023-08-16 Version: 04.1

#### Reason for revision:

This data sheet contains changes from the previous version in section(s):, 1, 4, 7, 8, 14, 16

#### Classification procedure

The classification of the mixture is in general based on calculation methods using substance data, as required by Regulation (EC) No 1272/2008. If for certain classifications data on the mixture is available or for example bridging principles or weight of evidence can be used for classification, this will be indicated in the relevant sections of the Safety Data Sheet. See section 9 for physical chemical properties, section 11 for toxicological information and section 12 for ecological information.

### 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
- 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 Organisation 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
- · H225 Highly flammable liquid and vapour.
- 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.
- H336 May cause drowsiness or dizziness.
- H373 May cause damage to organs through prolonged or repeated exposure.
- · H400 Very toxic to aquatic life.
- H411 Toxic to aquatic life with long lasting effects.

**End of Safety Data Sheet**