

**Divosan EnduroPlus VS63**

Revision: 2024-12-06

Version: 01.0

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

**1.1 Product identifier**

**Trade name:** Divosan EnduroPlus VS63

UFI: RP63-D0WX-600F-PR0P

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

**Product use:** Surface disinfectant.  
for food contact surface disinfection  
For industrial use only..  
**Uses advised against:** Uses other than those identified are not recommended.

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

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, De Corridor 4, 3621ZB Breukelen [Maarssenbroeksedijk 2, 3542DN Utrecht], The Netherlands

**Contact details**

Diversey España, S.L.  
Avda Conde Duque, 5, Pol. Ind. La Postura, 28343 Valdemoro (Madrid), Tel: 900 533 856  
E-mail: es.pedidos@solenis.com

**1.4 Emergency telephone number**

Seek medical advice (show the label or safety data sheet where possible).  
Servicio de Información Toxicológica (Instituto Nacional de Toxicología y Ciencias Forenses), Tel: +34 915 620 420.

**SECTION 2: Hazards identification**

**2.1 Classification of the substance or mixture**

EUH031  
Skin corrosion, Category 1A (H314)  
Serious eye damage, Category 1 (H318)  
Acute aquatic toxicity, Category 1 (H400)  
Chronic aquatic toxicity, Category 2 (H411)  
Corrosive to metals, Category 1 (H290)

**2.2 Label elements**



**Signal word:** Danger.

Contains sodium hydroxide (Sodium Hydroxide)

**Hazard statements:**

H290 - May be corrosive to metals.  
H314 - Causes severe skin burns and eye damage.  
H400 - Very toxic to aquatic life.  
EUH031 - Contact with acids liberates toxic gas.

**Precautionary statements:**

P234 - Keep only in original packaging.  
P260 - Do not breathe vapours.  
P280 - Wear protective gloves, protective clothing and eye or face protection.  
P273 - Avoid release to the environment.

P391 - Collect spillage.

P501 - Dispose of contents / container according regulations on hazardous waste.

### 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	01-211945789 2-27	Skin corrosion, Category 1A (H314) Corrosive to metals, Category 1 (H290)		3-10
sodium hypochlorite (active chlorine)	231-668-3	7681-52-9	[6]	EUH031 Skin corrosion, Category 1B (H314) Serious eye damage, Category 1 (H318) Acute aquatic toxicity, Category 1 M=10 (H400) Chronic aquatic toxicity, Category 1 M=1 (H410) Corrosive to metals, Category 1 (H290)		3-10
sodium xylene sulphonate	701-037-1	-	01-211951335 0-56	Eye irritation, Category 2 (H319)		3-10
potassium hydroxide	215-181-3	1310-58-3	01-211948713 6-33	Skin corrosion, Category 1A (H314) Acute toxicity - Oral, Category 4 (H302) Corrosive to metals, Category 1 (H290)		1-3
N,N-dimethyltetradecylamine N-oxide	222-059-3	3332-27-2	01-211994926 2-37	Acute toxicity - Oral, Category 4 (H302) Skin irritation, Category 2 (H315) Serious eye damage, Category 1 (H318) Acute aquatic toxicity, Category 1 M=1 (H400) Chronic aquatic toxicity, Category 2 (H411)		0.1-1
amines, C12-14 (even numbered)-alkyldimethyl, N-oxides	931-292-6	308062-28-4	01-211949006 1-47	Acute toxicity - Oral, Category 4 (H302) Skin irritation, Category 2 (H315) Serious eye damage, Category 1 (H318) Acute aquatic toxicity, Category 1 M=1 (H400) Chronic aquatic toxicity, Category 2 (H411)		0.1-1

#### Specific concentration limits

sodium hydroxide:

- Serious eye damage, Category 1 (H318) >= 2% > Eye irritation, Category 2 (H319) >= 0.5%
- Skin corrosion, Category 1A (H314) >= 5% > Skin corrosion, Category 1B (H314) >= 2% > Skin irritation, Category 2 (H315) >= 0.5%

potassium hydroxide:

- Serious eye damage, Category 1 (H318) >= 2% > Eye irritation, Category 2 (H319) >= 0.5%
- Skin corrosion, Category 1A (H314) >= 5% > Skin corrosion, Category 1B (H314) >= 2% > Skin irritation, Category 2 (H315) >= 0.5%

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

ATE, if available, are listed in section 11.

[6] Exempted: biocidal active. See Article 15(2) 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:

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. Wash skin with plenty of lukewarm, gently flowing water. Take off immediately all contaminated clothing and wash it before reuse. Immediately call a POISON CENTRE, doctor or physician. If skin irritation occurs: Get medical advice or attention.

#### 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:

May cause bronchospasm in chlorine sensitive individuals.

#### 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**

Ensure adequate ventilation. Do not breathe dust or vapour. In case of an incident in a confined area wear suitable respiratory protection. 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**

Ensure adequate ventilation. Dyke to collect large liquid spills. 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.

**Advice on general occupational hygiene:**

Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs. Do not mix with other products unless advised by Diversey. Wash 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 vapours. 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. Keep from freezing. For conditions to avoid see subsection 10.4. For incompatible materials see subsection 10.5.

Seveso - Lower Tier requirements (tonnes): 100

Seveso - Upper Tier requirements (tonnes): 200

**7.3 Specific end use(s)**

No specific advice for end use available.

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

Air limit values, if available:

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

<b>Ingredient(s)</b>	<b>Short term - Local effects</b>	<b>Short term - Systemic effects</b>	<b>Long term - Local effects</b>	<b>Long term - Systemic effects</b>
sodium hydroxide	-	-	-	-
sodium hypochlorite (active chlorine)	-	-	-	0.26
sodium xylene sulphonate	-	-	-	3.8
potassium hydroxide	-	-	-	-
N,N-dimethyltetradecylamine N-oxide	-	-	-	0.44
amines, C12-14 (even numbered)-alkyldimethyl, N-oxides	-	-	-	0.44

DNEL/DMEL dermal exposure - Worker

<b>Ingredient(s)</b>	<b>Short term - Local effects</b>	<b>Short term - Systemic effects (mg/kg bw)</b>	<b>Long term - Local effects</b>	<b>Long term - Systemic effects (mg/kg bw)</b>
sodium hydroxide	2 %	-	-	-
sodium hypochlorite (active chlorine)	-	-	0.5 %	-
sodium xylene sulphonate	-	-	0.096 mg/cm <sup>2</sup> skin	136.25
potassium hydroxide	No data available	-	No data available	-
N,N-dimethyltetradecylamine N-oxide	-	-	-	11
amines, C12-14 (even numbered)-alkyldimethyl, N-oxides	No data available	-	- %	11

DNEL/DMEL dermal exposure - Consumer

<b>Ingredient(s)</b>	<b>Short term - Local effects</b>	<b>Short term - Systemic effects (mg/kg bw)</b>	<b>Long term - Local effects</b>	<b>Long term - Systemic effects (mg/kg bw)</b>
sodium hydroxide	2 %	-	-	-
sodium hypochlorite (active chlorine)	-	-	0.5 %	-
sodium xylene sulphonate	-	-	0.048 mg/cm <sup>2</sup> skin	68.1
potassium hydroxide	No data available	-	No data available	-
N,N-dimethyltetradecylamine N-oxide	-	-	-	5.5
amines, C12-14 (even numbered)-alkyldimethyl, N-oxides	No data available	-	- %	5.5

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

<b>Ingredient(s)</b>	<b>Short term - Local effects</b>	<b>Short term - Systemic effects</b>	<b>Long term - Local effects</b>	<b>Long term - Systemic effects</b>
sodium hydroxide	-	-	1	-
sodium hypochlorite (active chlorine)	3.1	3.1	1.55	1.55
sodium xylene sulphonate	-	-	-	26.9
potassium hydroxide	-	-	1	-
N,N-dimethyltetradecylamine N-oxide	-	-	-	6.2
amines, C12-14 (even numbered)-alkyldimethyl, N-oxides	-	-	-	6.2

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

<b>Ingredient(s)</b>	<b>Short term - Local effects</b>	<b>Short term - Systemic effects</b>	<b>Long term - Local effects</b>	<b>Long term - Systemic effects</b>
sodium hydroxide	-	-	1	-
sodium hypochlorite (active chlorine)	3.1	3.1	1.55	1.55
sodium xylene sulphonate	-	-	-	6.6
potassium hydroxide	-	-	1	-
N,N-dimethyltetradecylamine N-oxide	-	-	-	1.53
amines, C12-14 (even numbered)-alkyldimethyl, N-oxides	-	-	-	1.53

**Environmental exposure**

Environmental exposure - PNEC

<b>Ingredient(s)</b>	<b>Surface water, fresh (mg/l)</b>	<b>Surface water, marine (mg/l)</b>	<b>Intermittent (mg/l)</b>	<b>Sewage treatment plant (mg/l)</b>
sodium hydroxide	-	-	-	-
sodium hypochlorite (active chlorine)	0.00021	0.00042	0.00026	0.03
sodium xylene sulphonate	0.23	0.023	2.3	100
potassium hydroxide	-	-	-	-
N,N-dimethyltetradecylamine N-oxide	0.0335	0.00335	0.0335	24
amines, C12-14 (even numbered)-alkyldimethyl, N-oxides	0.0335	0.00335	0.0335	24

Environmental exposure - PNEC, continued

<b>Ingredient(s)</b>	<b>Sediment, freshwater</b>	<b>Sediment, marine</b>	<b>Soil (mg/kg)</b>	<b>Air (mg/m<sup>3</sup>)</b>
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	(mg/kg)	(mg/kg)		
sodium hydroxide	-	-	-	-
sodium hypochlorite (active chlorine)	-	-	-	-
sodium xylene sulphonate	0.862	0.0862	0.037	-
potassium hydroxide	-	-	-	-
N,N-dimethyltetradecylamine N-oxide	5.24	0.524	1.02	-
amines, C12-14 (even numbered)-alkyldimethyl, N-oxides	5.24	0.524	1.02	-

## 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. 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 worker exposure description	LCS	PROC	Duration (min)	ERC
Automatic transfer and dilution	AISE_SWED_IS_8b_1	IS	PROC 8b	60	ERC4

## Personal protective equipment

## Eye / face protection:

Safety glasses or goggles (EN 16321). 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:  $\geq 480$  min Material thickness:  $\geq 0.7$  mm  
Suggested gloves for protection against splashes: Material: nitrile rubber Penetration time:  $\geq 30$  min Material thickness:  $\geq 0.4$  mm  
In consultation with the supplier of protective gloves a different type providing similar protection may be chosen.

## Body protection:

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

## Respiratory protection:

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

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

Recommended safety measures for handling the diluted product:

Recommended maximum concentration (% w/w): 10

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

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

## REACH use scenarios considered for the diluted product:

	SWED	LCS	PROC	Duration (min)	ERC
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 16321). Safety glasses or goggles (EN 16321) are always recommended for foam applications.

## Hand protection:

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

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Verify instructions regarding permeability and breakthrough time, as provided by the gloves supplier. Consider specific local use conditions, such as risk of splashes, cuts, contact time and temperature.

Suggested gloves for prolonged contact: Material: butyl rubber Penetration time:  $\geq 480$  min Material thickness:  $\geq 0.7$  mm

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

**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:**

Should not reach sewage water or drainage ditch undiluted.

**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 , Pale , Yellow

**Odour:** Chlorine

**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	
sodium hypochlorite (active chlorine)	Product decomposes before boiling	Method not given	1013
sodium xylene sulphonate	> 100	Method not given	
potassium hydroxide	Not applicable to solids or gases	Method not given	
N,N-dimethyltetradecylamine N-oxide	100	Method not given	
amines, C12-14 (even numbered)-alkyldimethyl, N-oxides	> 100	Method not given	

**Method / remark**

**Flammability (solid, gas):** Not applicable to liquids

**Flammability (liquid):** Not flammable.

**Flash point (°C):** > 100 °C

closed cup

**Sustained combustion:** The product does not sustain combustion  
( UN Manual of Tests and Criteria, section 32, L.2 )

Weight of evidence

**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)
sodium hypochlorite (active chlorine)	-	-

**Method / remark**

**Autoignition temperature:** Not determined

**Decomposition temperature:** Not applicable.

**pH:**  $\geq 11.5$  (neat)

ISO 4316

**Dilution pH:** > 11 (10 %)

ISO 4316

**Kinematic viscosity:** Not determined

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

Substance data, solubility in water

Ingredient(s)	Value (g/l)	Method	Temperature (°C)
sodium hydroxide	1000	Method not given	20
sodium hypochlorite (active chlorine)	Soluble		
sodium xylene sulphonate	664	Method not given	
potassium hydroxide	No data available		
N,N-dimethyltetradecylamine N-oxide	Soluble		
amines, C12-14 (even numbered)-alkyldimethyl, N-oxides	409.5 Soluble	Method not given	20

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

**Vapour pressure:** Not determined

**Method / remark**  
See substance data

Substance data, vapour pressure

Ingredient(s)	Value (Pa)	Method	Temperature (°C)
sodium hydroxide	< 1330	Method not given	20
sodium hypochlorite (active chlorine)	Negligible		
sodium xylene sulphonate	Not applicable		
potassium hydroxide	Negligible	Method not given	
N,N-dimethyltetradecylamine N-oxide	230	Method not given	25
amines, C12-14 (even numbered)-alkyldimethyl, N-oxides	< 10	Method not given	25

**Relative density:**  $\approx 1.23$  (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. 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. Reacts with acids releasing toxic chlorine gas.

### 10.6 Hazardous decomposition products

Chlorine.

## 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

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 Oral (mg/kg)
sodium hydroxide		No data available				Not established
sodium hypochlorite (active chlorine)	LD <sub>50</sub>	1100	Rat	OECD 401 (EU B.1)	90	Not established
sodium xylene sulphonate	LD <sub>50</sub>	> 7200	Rat	OECD 401 (EU B.1)		Not established
potassium hydroxide	LD <sub>50</sub>	333	Rat	OECD 425		333
N,N-dimethyltetradecylamine N-oxide	LD <sub>50</sub>	> 1495	Rat	OECD 401 (EU B.1)		55000

amines, C12-14 (even numbered)-alkyldimethyl, N-oxides	LD <sub>50</sub>	1064	Rat	OECD 401 (EU B.1)		66000
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## Acute dermal toxicity

Ingredient(s)	Endpoint	Value (mg/kg)	Species	Method	Exposure time (h)	ATE Dermal (mg/kg)
sodium hydroxide	LD <sub>50</sub>	1350	Rabbit	Method not given		Not established
sodium hypochlorite (active chlorine)	LD <sub>50</sub>	> 20000	Rabbit	OECD 402 (EU B.3)		Not established
sodium xylene sulphonate	LD <sub>50</sub>	> 2000	Rabbit	OECD 402 (EU B.3)		Not established
potassium hydroxide		No data available				Not established
N,N-dimethyltetradecylamine N-oxide		No data available				Not established
amines, C12-14 (even numbered)-alkyldimethyl, N-oxides	LD <sub>50</sub>	> -	Rat	OECD 402 (EU B.3)		Not established

## Acute inhalative toxicity

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
sodium hydroxide		No data available			
sodium hypochlorite (active chlorine)	LC <sub>50</sub>	> 10.5 (vapour)	Rat	OECD 403 (EU B.2)	1
sodium xylene sulphonate	LC <sub>50</sub>	> 6.41 (mist) No mortality observed	Rat	OECD 403 (EU B.2)	4
potassium hydroxide		No data available			
N,N-dimethyltetradecylamine N-oxide		No data available			
amines, C12-14 (even numbered)-alkyldimethyl, N-oxides		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)
sodium hydroxide	Not established	Not established	Not established	Not established
sodium hypochlorite (active chlorine)	Not established	Not established	Not established	Not established
sodium xylene sulphonate	Not established	Not established	Not established	Not established
potassium hydroxide	Not established	Not established	Not established	Not established
N,N-dimethyltetradecylamine N-oxide	Not established	Not established	Not established	Not established
amines, C12-14 (even numbered)-alkyldimethyl, 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	
sodium hypochlorite (active chlorine)	Corrosive	Rabbit	OECD 404 (EU B.4)	
sodium xylene sulphonate	Mild irritant	Rabbit	OECD 404 (EU B.4)	
potassium hydroxide	Corrosive	Rabbit	Draize test	
N,N-dimethyltetradecylamine N-oxide	Irritant	Rabbit	OECD 404 (EU B.4)	
amines, C12-14 (even numbered)-alkyldimethyl, N-oxides	Irritant	Rabbit	OECD 404 (EU B.4)	

## Eye irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
sodium hydroxide	Corrosive	Rabbit	Method not given	
sodium hypochlorite (active chlorine)	Severe damage	Rabbit	OECD 405 (EU B.5)	
sodium xylene sulphonate	Irritant	Rabbit	OECD 405 (EU B.5)	
potassium hydroxide	Corrosive	Rabbit	Method not given	
N,N-dimethyltetradecylamine N-oxide	Severe damage	Rabbit	OECD 405 (EU B.5)	
amines, C12-14 (even numbered)-alkyldimethyl, N-oxides	Severe damage	Rabbit	OECD 405 (EU B.5)	

## Respiratory tract irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
sodium hydroxide	No data available			
sodium hypochlorite (active chlorine)	Irritating to respiratory tract			
sodium xylene sulphonate	No data available			
potassium hydroxide	No data available			
N,N-dimethyltetradecylamine N-oxide	No data available			
amines, C12-14 (even numbered)-alkyldimethyl, 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	
sodium hypochlorite (active chlorine)	Not sensitising	Guinea pig	OECD 406 (EU B.6) / Buehler test	
sodium xylene sulphonate	Not sensitising	Guinea pig	OECD 406 (EU B.6) / GPMT	
potassium hydroxide	Not sensitising	Guinea pig	Method not given	
N,N-dimethyltetradecylamine N-oxide	No data available			
amines, C12-14 (even numbered)-alkyldimethyl, N-oxides	Not sensitising	Guinea pig	OECD 406 (EU B.6) / Buehler test	

Sensitisation by inhalation

Ingredient(s)	Result	Species	Method	Exposure time
sodium hydroxide	No data available			
sodium hypochlorite (active chlorine)	Not sensitising			
sodium xylene sulphonate	No data available			
potassium hydroxide	No data available			
N,N-dimethyltetradecylamine N-oxide	No data available			
amines, C12-14 (even numbered)-alkyldimethyl, 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 test results	DNA repair test on rat hepatocytes OECD 473	No evidence for mutagenicity, negative test results	OECD 474 (EU B.12) OECD 475 (EU B.11)
sodium hypochlorite (active chlorine)	No evidence for mutagenicity	OECD 471 (EU B.12/13)	No evidence for mutagenicity, negative test results	OECD 474 (EU B.12)
sodium xylene sulphonate	No evidence for mutagenicity, negative test results	OECD 473	No evidence for mutagenicity, negative test results	OECD 474 (EU B.12)
potassium hydroxide	No evidence for mutagenicity, negative test results	Method not given	No data available	
N,N-dimethyltetradecylamine N-oxide	No data available		No data available	
amines, C12-14 (even numbered)-alkyldimethyl, N-oxides	No evidence for mutagenicity, negative test results	OECD 471 (EU B.12/13)	No data available	

Carcinogenicity

Ingredient(s)	Effect
sodium hydroxide	No evidence for carcinogenicity, weight-of-evidence
sodium hypochlorite (active chlorine)	No evidence for carcinogenicity, negative test results
sodium xylene sulphonate	No evidence for carcinogenicity, negative test results
potassium hydroxide	No evidence for carcinogenicity, negative test results
N,N-dimethyltetradecylamine N-oxide	No data available
amines, C12-14 (even numbered)-alkyldimethyl, N-oxides	No evidence for carcinogenicity, negative test results

Toxicity for reproduction

Ingredient(s)	Endpoint	Specific effect	Value (mg/kg bw/d)	Species	Method	Exposure time	Remarks and other effects reported
sodium hydroxide			No data available				No evidence for developmental toxicity No evidence for reproductive toxicity
sodium hypochlorite (active chlorine)	NOAEL	Developmental toxicity Impaired fertility	5 (CI)	Rat	OECD 414 (EU B.31), oral OECD 415 (EU B.34), oral		No evidence for reproductive toxicity
sodium xylene sulphonate	NOAEL	Teratogenic effects	> 936	Rat	Non guideline test		
potassium hydroxide			No data available				No evidence for reproductive toxicity
N,N-dimethyltetradecylamine N-oxide			No data available				
amines, C12-14 (even numbered)-alkyldimethyl, N-oxides	NOAEL	Teratogenic effects	25	Rat	Non guideline test		

**Repeated dose toxicity**

## Sub-acute or sub-chronic oral toxicity

Ingredient(s)	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure time (days)	Specific effects and organs affected
sodium hydroxide		No data available				
sodium hypochlorite (active chlorine)	NOAEL	50	Rat	OECD 408 (EU B.26)	90	
sodium xylene sulphonate	NOAEL	763 - 3534	Rat	OECD 408 (EU B.26)	90	
potassium hydroxide		No data available				
N,N-dimethyltetradecylamine N-oxide		No data available				
amines, C12-14 (even numbered)-alkyldimethyl, N-oxides	NOAEL	-		OECD 422, oral		

## Sub-chronic dermal toxicity

Ingredient(s)	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure time (days)	Specific effects and organs affected
sodium hydroxide		No data available				
sodium hypochlorite (active chlorine)		No data available				
sodium xylene sulphonate	NOAEL	> 440		OECD 411 (EU B.28)	90	
potassium hydroxide		No data available				
N,N-dimethyltetradecylamine N-oxide		No data available				
amines, C12-14 (even numbered)-alkyldimethyl, 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				
sodium hypochlorite (active chlorine)		No data available				
sodium xylene sulphonate		No data available				
potassium hydroxide		No data available				
N,N-dimethyltetradecylamine N-oxide		No data available				
amines, C12-14 (even numbered)-alkyldimethyl, 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					
sodium hypochlorite (active chlorine)			No data available					
sodium xylene sulphonate	Oral		No data available	Rat	OECD 453 (EU B.33)	24 month(s)	No adverse effects observed	
potassium hydroxide			No data available					
N,N-dimethyltetradecylamine N-oxide			No data available					
amines, C12-14 (even numbered)-alkyldimethyl, N-oxides			No data available					

## STOT-single exposure

Ingredient(s)	Affected organ(s)
sodium hydroxide	No data available
sodium hypochlorite (active chlorine)	Not applicable
sodium xylene sulphonate	No data available
potassium hydroxide	No data available
N,N-dimethyltetradecylamine N-oxide	No data available
amines, C12-14 (even numbered)-alkyldimethyl, N-oxides	No data available

## STOT-repeated exposure

Ingredient(s)	Affected organ(s)
sodium hydroxide	No data available

sodium hypochlorite (active chlorine)	Not applicable
sodium xylene sulphonate	No data available
potassium hydroxide	No data available
N,N-dimethyltetradecylamine N-oxide	No data available
amines, C12-14 (even numbered)-alkyldimethyl, N-oxides	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)
sodium hydroxide	LC <sub>50</sub>	35	Various species	Method not given	96
sodium hypochlorite (active chlorine)	LC <sub>50</sub>	0.06	<i>Oncorhynchus mykiss</i>	Method not given	96
sodium xylene sulphonate	LC <sub>50</sub>	> 1000	<i>Oncorhynchus mykiss</i>	Method not given	96
potassium hydroxide	LC <sub>50</sub>	80	Various species	Weight of evidence	24
N,N-dimethyltetradecylamine N-oxide	LC <sub>50</sub>	1-10	<i>Brachydanio rerio</i>	OECD 203, semi-static	96
amines, C12-14 (even numbered)-alkyldimethyl, N-oxides	LC <sub>50</sub>	2.67-3.46	<i>Pimephales promelas</i>	Similar to OECD 203	96

Aquatic short-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
sodium hydroxide	EC <sub>50</sub>	40.4	<i>Ceriodaphnia</i> sp.	Method not given	48
sodium hypochlorite (active chlorine)	EC <sub>50</sub>	0.035	<i>Ceriodaphnia dubia</i>	OECD 202 (EU C.2)	48
sodium xylene sulphonate	EC <sub>50</sub>	> 1000	<i>Daphnia</i>	Method not given	48
potassium hydroxide	EC <sub>50</sub>	30 - 1000	<i>Daphnia magna</i> Straus	Weight of evidence	
N,N-dimethyltetradecylamine N-oxide	EC <sub>50</sub>	> 1-10	<i>Daphnia magna</i> Straus	OECD 202, static	48
amines, C12-14 (even numbered)-alkyldimethyl, N-oxides	EC <sub>50</sub>	3.1	<i>Daphnia magna</i> Straus	OECD 202, static	48

Aquatic short-term toxicity - algae

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
sodium hydroxide	EC <sub>50</sub>	22	<i>Photobacterium phosphoreum</i>	Method not given	0.25
sodium hypochlorite (active chlorine)	NOEC	0.0021	Not specified	Method not given	168
sodium xylene sulphonate	EC <sub>50</sub>	> 230	Not specified	EPA OPPTS 850.5400	96
potassium hydroxide		No data available			
N,N-dimethyltetradecylamine N-oxide	EC <sub>50</sub>	0.19	<i>Pseudokirchneriella subcapitata</i>	Read across	72
amines, C12-14 (even numbered)-alkyldimethyl, N-oxides	E <sub>r</sub> C <sub>50</sub>	0.143	<i>Pseudokirchneriella</i>	Method not given	72

			<i>ieiella subcapitata</i>		
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## Aquatic short-term toxicity - marine species

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (days)
sodium hydroxide		No data available			
sodium hypochlorite (active chlorine)	EC <sub>50</sub>	0.026	<i>Crassostrea virginica</i>	Method not given	2
sodium xylene sulphonate		No data available			
potassium hydroxide		No data available			
N,N-dimethyltetradecylamine N-oxide		No data available			
amines, C12-14 (even numbered)-alkyldimethyl, 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			
sodium hypochlorite (active chlorine)		0.375	<i>Activated sludge</i>	Method not given	
sodium xylene sulphonate	E <sub>r</sub> C <sub>50</sub>	> 1000	<i>Activated sludge</i>	OECD 209	3 hour(s)
potassium hydroxide	EC <sub>50</sub>	22	<i>Photobacterium phosphoreum</i>	Method not given	15 minute(s)
N,N-dimethyltetradecylamine N-oxide	EC <sub>50</sub>	56	<i>Pseudomonas putida</i>	DIN 38412 / Part 8 Read across	
amines, C12-14 (even numbered)-alkyldimethyl, N-oxides	EC <sub>10</sub>	> -	<i>Bacteria</i>	Non guideline test	- hour(s)

## Aquatic long-term toxicity

## Aquatic long-term toxicity - fish

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
sodium hydroxide		No data available				
sodium hypochlorite (active chlorine)	NOEC	0.04	<i>Menidia pelinsulae</i>	Method not given	96 hour(s)	
sodium xylene sulphonate		No data available				
potassium hydroxide		No data available				
N,N-dimethyltetradecylamine N-oxide		No data available				
amines, C12-14 (even numbered)-alkyldimethyl, N-oxides	NOEC	0.42	<i>Pimephales promelas</i>	Method not given	302 day(s)	

## Aquatic long-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
sodium hydroxide		No data available				
sodium hypochlorite (active chlorine)	NOEC	0.007	<i>Crassostrea virginica</i>	Method not given	15 day(s)	
sodium xylene sulphonate		No data available				
potassium hydroxide		No data available				
N,N-dimethyltetradecylamine N-oxide		No data available				
amines, C12-14 (even numbered)-alkyldimethyl, N-oxides	NOEC	0.7	<i>Daphnia magna</i>	OECD 211, flow-through	21 day(s)	

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

Ingredient(s)	Endpoint	Value (mg/kg dw sediment)	Species	Method	Exposure time (days)	Effects observed
sodium hydroxide		No data available				
sodium hypochlorite (active chlorine)		No data available				
sodium xylene sulphonate		No data available				

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potassium hydroxide		No data available				
N,N-dimethyltetradecylamine N-oxide		No data available				
amines, C12-14 (even numbered)-alkyldimethyl, N-oxides		No data available				

**Terrestrial toxicity**

Terrestrial toxicity - soil invertebrates, including earthworms, if available:

<b>Ingredient(s)</b>	<b>Endpoint</b>	<b>Value (mg/kg dw soil)</b>	<b>Species</b>	<b>Method</b>	<b>Exposure time (days)</b>	<b>Effects observed</b>
sodium hydroxide		No data available				
sodium hypochlorite (active chlorine)		No data available				
potassium hydroxide		No data available				

Terrestrial toxicity - plants, if available:

<b>Ingredient(s)</b>	<b>Endpoint</b>	<b>Value (mg/kg dw soil)</b>	<b>Species</b>	<b>Method</b>	<b>Exposure time (days)</b>	<b>Effects observed</b>
sodium hydroxide		No data available				
sodium hypochlorite (active chlorine)		No data available				
potassium hydroxide		No data available				

Terrestrial toxicity - birds, if available:

<b>Ingredient(s)</b>	<b>Endpoint</b>	<b>Value</b>	<b>Species</b>	<b>Method</b>	<b>Exposure time (days)</b>	<b>Effects observed</b>
sodium hydroxide		No data available				
sodium hypochlorite (active chlorine)		No data available				

Terrestrial toxicity - beneficial insects, if available:

<b>Ingredient(s)</b>	<b>Endpoint</b>	<b>Value (mg/kg dw soil)</b>	<b>Species</b>	<b>Method</b>	<b>Exposure time (days)</b>	<b>Effects observed</b>
sodium hydroxide		No data available				
sodium hypochlorite (active chlorine)		No data available				
potassium hydroxide		No data available				

Terrestrial toxicity - soil bacteria, if available:

<b>Ingredient(s)</b>	<b>Endpoint</b>	<b>Value (mg/kg dw soil)</b>	<b>Species</b>	<b>Method</b>	<b>Exposure time (days)</b>	<b>Effects observed</b>
sodium hydroxide		No data available				
sodium hypochlorite (active chlorine)		No data available				
potassium hydroxide		No data available				

**12.2 Persistence and degradability****Abiotic degradation**

Abiotic degradation - photodegradation in air, if available:

<b>Ingredient(s)</b>	<b>Half-life time</b>	<b>Method</b>	<b>Evaluation</b>	<b>Remark</b>
sodium hydroxide	13 second(s)	Method not given	Rapidly photodegradable	
sodium hypochlorite (active chlorine)	115 day(s)	Indirect photo-oxidation		
potassium hydroxide	No data available			

Abiotic degradation - hydrolysis, if available:

<b>Ingredient(s)</b>	<b>Half-life time in fresh water</b>	<b>Method</b>	<b>Evaluation</b>	<b>Remark</b>
sodium hydroxide	No data available			
sodium hypochlorite (active chlorine)	No data available			
potassium hydroxide	No data available			

Abiotic degradation - other processes, if available:

Ingredient(s)	Type	Half-life time	Method	Evaluation	Remark
sodium hydroxide		No data available			
sodium hypochlorite (active chlorine)		No data available			
potassium hydroxide		No data available			

**Biodegradation**

Ready biodegradability - aerobic conditions

Ingredient(s)	Inoculum	Analytical method	DT <sub>50</sub>	Method	Evaluation
sodium hydroxide					Not applicable (inorganic substance)
sodium hypochlorite (active chlorine)					Not applicable (inorganic substance)
sodium xylene sulphonate	Activated sludge, aerobe	CO <sub>2</sub> production	99.8 % in 28 day(s)	OECD 301B	Readily biodegradable
potassium hydroxide					Not applicable (inorganic substance)
N,N-dimethyltetradecylamine N-oxide	Activated sludge, aerobe	CO <sub>2</sub> production	> 60 % in 28 day(s)	OECD 301B	Readily biodegradable
amines, C12-14 (even numbered)-alkyldimethyl, N-oxides	Activated sludge, aerobe	CO <sub>2</sub> production	90 % in 28 day(s)	OECD 301B	Readily biodegradable

Ready biodegradability - anaerobic and marine conditions, if available:

Ingredient(s)	Medium & Type	Analytical method	DT <sub>50</sub>	Method	Evaluation
sodium hydroxide					No data available
sodium hypochlorite (active chlorine)					No data available

Degradation in relevant environmental compartments, if available:

Ingredient(s)	Medium & Type	Analytical method	DT <sub>50</sub>	Method	Evaluation
sodium hydroxide					No data available
sodium hypochlorite (active chlorine)					No data available
potassium hydroxide					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	
sodium hypochlorite (active chlorine)	-3.42	Method not given	No bioaccumulation expected	
sodium xylene sulphonate	-3.12	Method not given	No bioaccumulation expected	
potassium hydroxide	No data available		Not relevant, does not bioaccumulate	
N,N-dimethyltetradecylamine N-oxide	No data available		No bioaccumulation expected	
amines, C12-14 (even numbered)-alkyldimethyl, N-oxides	< -	Method not given	No bioaccumulation expected	

Bioconcentration factor (BCF)

Ingredient(s)	Value	Species	Method	Evaluation	Remark
sodium hydroxide	No data available				
sodium hypochlorite (active chlorine)	No data available				
sodium xylene sulphonate	No data available				
potassium hydroxide	No data available				
N,N-dimethyltetradecylamine N-oxide	No data available				
amines, C12-14 (even numbered)-alkyldimethyl, N-oxides	No data available				

**12.4 Mobility in soil**

Adsorption/Desorption to soil or sediment

Ingredient(s)	Adsorption coefficient Log K <sub>oc</sub>	Desorption coefficient Log K <sub>oc</sub> (des)	Method	Soil/sediment type	Evaluation
sodium hydroxide	No data available				Mobile in soil
sodium hypochlorite (active chlorine)	1.12				High potential for mobility in soil

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sodium xylene sulphonate	No data available				
potassium hydroxide	No data available				Low potential for adsorption to soil
N,N-dimethyltetradecylamine N-oxide	No data available				
amines, C12-14 (even numbered)-alkyldimethyl, N-oxides	No data available				Low mobility 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.

**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:** 1719

**14.2 UN proper shipping name:**

Caustic alkali liquid, n.o.s. ( sodium hypochlorite , sodium hydroxide )

Caustic alkali liquid, n.o.s. ( sodium hypochlorite , sodium hydroxide )

**14.3 Transport hazard class(es):**

**Transport hazard class (and subsidiary risks):** 8

**14.4 Packing group:** II

**14.5 Environmental hazards:**

**Environmentally hazardous:** Yes

**Marine pollutant:** Yes

**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**

## Divosan EnduroPlus VS63

**EU regulations:**

- Regulation (EC) No. 1907/2006 - REACH
- Regulation (EC) No 1272/2008 - CLP
- Regulation (EU) No 528/2012 on biocidal products
- substances identified as having endocrine disrupting properties in accordance with the criteria set out in Delegated Regulation (EU) 2017/2100 or Regulation (EU) 2018/605
- 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.

**Seveso - Classification:** E1 - Hazardous to the Aquatic Environment in Category Acute 1 or Chronic 1

**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:** MS1005847

**Version:** 01.0

**Revision:** 2024-12-06

**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
- 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.
- H400 - Very toxic to aquatic life.
- H410 - Very toxic to aquatic life with long lasting effects.
- H411 - Toxic to aquatic life with long lasting effects.
- EUH031 - Contact with acids liberates toxic gas.

**End of Safety Data Sheet**