

## Divosan SaniPerfect VS61

### Hazards for humans and the environment



Contains alkyl alcohol ethoxylate (Trideceth 7-10), N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine (Laurylamine Dipropylenediamine), tetrasodium ethylene diamine tetraacetate (Tetrasodium EDTA)

**Signal word:**

**Hazard statements:**

**Danger.**

H315 - Causes skin irritation.

H318 - Causes serious eye damage.

H410 - Very toxic to aquatic life with long lasting effects.

H290 - May be corrosive to metals.

### Prevention and conduct



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



Recommended safety measures for handling the undiluted product:

Covering activities such as filling and transfer of product to application equipment, flasks or buckets

**Appropriate engineering controls:**

If the product is diluted by using specific dosing systems with no risk of splashes or direct skin contact, the personal protection equipment as described in this section is not required.

Avoid direct contact and/or splashes where possible. Train personnel.

**Appropriate organisational controls:**

**Personal protective equipment**

**Eye / face protection:**

**Hand protection:**

Safety glasses or goggles (EN 166).

Rinse and dry hands after use. For prolonged contact protection for the skin may be necessary.

Repeated or prolonged contact: Chemical-resistant protective gloves (EN 374). Consider specific local use conditions, such as risk of splashes, cuts, contact time and temperature.

No special requirements under normal use conditions.

No special requirements under normal use conditions.

**Body protection:**

**Respiratory protection:**

**Environmental exposure controls:**

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



Recommended safety measures for handling the diluted product:

**Recommended maximum concentration (% w/w):** 7

**Appropriate engineering controls:**

Provide a good standard of general ventilation. Ensure that foam equipment does not generate respirable particles.

No special requirements under normal use conditions.



**Appropriate organisational controls:**

**Personal protective equipment**

**Eye / face protection:**

**Hand protection:**

Safety glasses or goggles (EN 166) are always recommended for foam applications.

Chemical-resistant protective gloves (EN 374) are always recommended for foam applications. Consider specific local use conditions, such as risk of splashes, cuts, contact time and temperature.

No special requirements under normal use conditions.

No special requirements under normal use conditions.

**Body protection:**

**Respiratory protection:**

**Environmental exposure controls:**

Should not reach sewage water or drainage ditch undiluted.

### Emergency procedure



**Suitable extinguishing media**

Carbon dioxide. Dry powder. Water spray jet. Fight larger fires with water spray jet or alcohol-resistant foam.

**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.

**Methods for cleaning up**

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

### First aid measures



**Inhalation:**

**Skin contact:**

**Eye contact:**

Get medical attention or advice if you feel unwell.

Take off immediately all contaminated clothing and wash it before reuse.

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.

Rinse mouth. Immediately drink 1 glass of water. Never give anything by mouth to an unconscious person. Get medical attention or advice if you feel unwell.



**Ingestion:**

Always check the product labels and consult the Safety Data Sheet for details. 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.

MS1004237



**Divosan SaniPerfect VS61**

Revision: 2021-05-30

Version: 01.2

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

**1.1 Product identifier**

Trade name: Divosan SaniPerfect VS61

UFI: G25G-V0JG-H00D-AEW0

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

<b>Product use:</b>	Surface disinfectant. Open plant cleaning chemical. for food contact surface disinfection. For industrial use only..
<b>Uses advised against:</b>	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  
AISE\_SWED\_IS\_13\_3

**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 Irrit. 2 (H315)  
Eye Dam. 1 (H318)  
Aquatic Acute 1 (H400)  
Aquatic Chronic 2 (H411)  
Met. Corr. 1 (H290)

**2.2 Label elements**



**Signal word:** Danger.

Contains alkyl alcohol ethoxylate (Trideceth 7-10), N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine (Laurylamine Dipropylenediamine), tetrasodium ethylene diamine tetraacetate (Tetrasodium EDTA)

**Hazard statements:**

H315 - Causes skin irritation.  
H318 - Causes serious eye damage.  
H410 - Very toxic to aquatic life with long lasting effects.

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H290 - May be corrosive to metals.

**Precautionary statements:**

P280 - Wear eye or face protection.

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
trisodium citrate	200-675-3	[1]	[1]	Not classified as hazardous		3-10
alkyl alcohol ethoxylate	[4]	69011-36-5	[4]	Acute Tox. 4 (H302) Eye Dam. 1 (H318)		3-10
N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine	219-145-8	2372-82-9	[6]	Acute Tox. 3 (H301) Skin Corr. 1A (H314) STOT RE 2 (H373) Aquatic Acute 1 M=10 (H400) Aquatic Chronic 1 (H410)		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)		1-3

**Specific concentration limits**

alkyl alcohol ethoxylate:

• Eye Dam. 1 (H318) >= 10% > Eye Irrit. 2 (H319) >= 1%

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

ATE, if available, are listed in section 11.

[1] Exempted: ionic mixture. See Regulation (EC) No 1907/2006, Annex V, paragraph 3 and 4. This salt is potentially present, based on calculation, and included for classification and labelling purposes only. Each starting material of the ionic mixture is registered, as required.

[4] Exempted: polymer. See Article 2(9) of Regulation (EC) No 1907/2006.

[6] Exempted: biocidal active. See Article 15a 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****Inhalation:**

Get medical attention or advice if you feel unwell.

**Skin contact:**

Take off immediately all contaminated clothing and wash it before reuse.

**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. Get medical attention or advice if you feel unwell.

**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 irritation.

**Eye contact:**

Causes severe or permanent damage.

**Ingestion:**

No known effects or symptoms in normal use.

**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**

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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 gloves. Wear eye/face protection.

### 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. Absorb with liquid-binding material (sand, diatomite, universal binders, sawdust). Do not place spilled materials back into the original container. Collect in closed and suitable containers for disposal.

### 6.4 Reference to other sections

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

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

#### Measures to prevent fire and explosions:

No special precautions required.

#### Measures required to protect the environment:

For environmental exposure controls see subsection 8.2.

#### Advices on general occupational hygiene:

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

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

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

Biological limit values, if available:

#### Recommended monitoring procedures, if available:

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

#### DNEL/DMEL and PNEC values

##### Human exposure

DNEL oral exposure - Consumer (mg/kg bw)

Ingredient(s)	Short term - Local effects	Short term - Systemic effects	Long term - Local effects	Long term - Systemic effects
trisodium citrate	No data available	No data available	No data available	No data available
alkyl alcohol ethoxylate	-	-	-	-
N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine	-	-	-	0.2
tetrasodium ethylene diamine tetraacetate	-	-	-	25

DNEL dermal exposure - Worker

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Ingredient(s)	Short term - Local effects	Short term - Systemic effects (mg/kg bw)	Long term - Local effects	Long term - Systemic effects (mg/kg bw)
trisodium citrate	No data available	No data available	No data available	No data available
alkyl alcohol ethoxylate	-	-	-	-
N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine	-	-	-	0.91
tetrasodium ethylene diamine tetraacetate	-	-	-	-

## DNEL dermal exposure - Consumer

Ingredient(s)	Short term - Local effects	Short term - Systemic effects (mg/kg bw)	Long term - Local effects	Long term - Systemic effects (mg/kg bw)
trisodium citrate	No data available	No data available	No data available	No data available
alkyl alcohol ethoxylate	-	-	-	-
N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine	-	-	-	0.54
tetrasodium ethylene diamine tetraacetate	-	-	-	-

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

Ingredient(s)	Short term - Local effects	Short term - Systemic effects	Long term - Local effects	Long term - Systemic effects
trisodium citrate	No data available	No data available	No data available	No data available
alkyl alcohol ethoxylate	-	-	-	-
N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine	-	-	-	2.35
tetrasodium ethylene diamine tetraacetate	3	3	1.5	1.5

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

Ingredient(s)	Short term - Local effects	Short term - Systemic effects	Long term - Local effects	Long term - Systemic effects
trisodium citrate	No data available	No data available	No data available	No data available
alkyl alcohol ethoxylate	-	-	-	-
N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine	-	-	-	0.7
tetrasodium ethylene diamine tetraacetate	1.2	1.2	0.6	-

## 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)
trisodium citrate	No data available	No data available	No data available	No data available
alkyl alcohol ethoxylate	-	-	-	-
N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine	0.001	0.0001	0.00015	1.33
tetrasodium ethylene diamine tetraacetate	2.2	0.22	1.2	43

## Environmental exposure - PNEC, continued

Ingredient(s)	Sediment, freshwater (mg/kg)	Sediment, marine (mg/kg)	Soil (mg/kg)	Air (mg/m <sup>3</sup> )
trisodium citrate	No data available	No data available	No data available	No data available
alkyl alcohol ethoxylate	-	-	-	-
N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine	8.5	0.85	45.34	-
tetrasodium ethylene diamine tetraacetate	-	-	0.72	-

## 8.2 Exposure controls

The following information applies for the uses indicated in subsection 1.2 of the Safety Data Sheet.

If available, please refer to the product information sheet for application and handling instructions.

Normal use conditions are assumed for this section.

Recommended safety measures for handling the undiluted product:

**Appropriate engineering controls:** If the product is diluted by using specific dosing systems with no risk of splashes or direct skin contact, the personal protection equipment as described in this section is not required.

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

## REACH use scenarios considered for the undiluted product:

	SWED - Sector-specific worker exposure description	LCS	PROC	Duration (min)	ERC
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 166).

## Hand protection:

Repeated or prolonged contact: Chemical-resistant protective gloves (EN 374). Verify instructions

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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:**

No special requirements under normal use conditions.

**Respiratory protection:**

No special requirements under normal use conditions.

**Environmental exposure controls:**

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

Recommended safety measures for handling the diluted product:

**Recommended maximum concentration (% w/w):** 7

**Appropriate engineering controls:**

Provide a good standard of general ventilation. Ensure that foam equipment does not generate respirable particles.

**Appropriate organisational controls:**

No special requirements under normal use conditions.

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

	SWED	LCS	PROC	Duration (min)	ERC
Manual application by dipping, soaking, pouring	AISE_SWED_IS_13_3	IS	PROC 13	240	ERC4
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 or goggles (EN 166) are always recommended for foam applications.

**Hand protection:**

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

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

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:**

No special requirements under normal use conditions.

**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:** Product specific

**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)
trisodium citrate	No data available		
alkyl alcohol ethoxylate	> 200	Method not given	
N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine	No data available		
tetrasodium ethylene diamine tetraacetate	No data available	Non-experimental data	

**Method / remark**

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

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

**Flash point (°C):** > 93 °C

closed cup

**Sustained combustion:** Not applicable.

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

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**Lower and upper explosion limit/flammability limit (%):** Not determined

Substance data, flammability or explosive limits, if available:

**Method / remark**

**Autoignition temperature:** Not determined

**Decomposition temperature:** Not applicable.

**pH:**  $\approx 10$  (neat)

ISO 4316

**Dilution pH:**  $\approx 10$  (7 %)

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)
trisodium citrate	No data available		
alkyl alcohol ethoxylate	Soluble	Method not given	20
N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine	Soluble		
tetrasodium ethylene diamine tetraacetate	500	Method not given	20

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

**Method / remark**

**Vapour pressure:** Not determined

See substance data

Substance data, vapour pressure

Ingredient(s)	Value (Pa)	Method	Temperature (°C)
trisodium citrate	No data available		
alkyl alcohol ethoxylate	Negligible	Method not given	20-25
N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine	No data available		
tetrasodium ethylene diamine tetraacetate	0.0000000002	Read across	25

**Relative density:**  $\approx 1.08$  (20 °C)

**Relative vapour density:** No data available.

**Particle characteristics:** No data available.

**Method / remark**

OECD 109 (EU A.3)

Not relevant to classification of this product

Not applicable to liquids.

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

**Explosive properties:** Not explosive.

**Oxidising properties:** Not oxidising.

**Corrosion to metals:** Corrosive

Weight of evidence

**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.

**10.6 Hazardous decomposition products**

None known under normal storage and use conditions.

**SECTION 11: Toxicological information****11.1 Information on toxicological effects**

Mixture data:.

#### Relevant calculated ATE(s):

ATE - Oral (mg/kg): >2000

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

Substance data, where relevant and available, are listed below:.

#### Acute toxicity

Acute oral toxicity

Ingredient(s)	Endpoint	Value (mg/kg)	Species	Method	Exposure time (h)	ATE (mg/kg)
trisodium citrate	LD <sub>50</sub>	6400		OECD 401 (EU B.1)		Not established
alkyl alcohol ethoxylate	LD <sub>50</sub>	> 300-2000	Rat	OECD 423 (EU B.1 tris)		18000
N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine	LD <sub>50</sub>	261	Rat	Method not given		2700
tetrasodium ethylene diamine tetraacetate	LD <sub>50</sub>	1780	Rat	OECD 401 (EU B.1)		20000

Acute dermal toxicity

Ingredient(s)	Endpoint	Value (mg/kg)	Species	Method	Exposure time (h)	ATE (mg/kg)
trisodium citrate		No data available				Not established
alkyl alcohol ethoxylate	LD <sub>50</sub>	> 2000	Rabbit	Method not given		Not established
N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine	LD <sub>50</sub>	> 2000	Rat	OECD 402 (EU B.3)		Not established
tetrasodium ethylene diamine tetraacetate	LD <sub>50</sub>	> 5000	Rabbit	Method not given		Not established

Acute inhalative toxicity

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
trisodium citrate		No data available			
alkyl alcohol ethoxylate		No data available			
N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine		No data available			
tetrasodium ethylene diamine tetraacetate	LC <sub>50</sub>	≥ 1-5 (dust)	Rat	OECD 403 (EU B.2)	6

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)
trisodium citrate	Not established	Not established	Not established	Not established
alkyl alcohol ethoxylate	Not established	Not established	Not established	Not established
N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine	Not established	Not established	Not established	Not established
tetrasodium ethylene diamine tetraacetate	Not established	25	Not established	Not established

#### Irritation and corrosivity

Skin irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
trisodium citrate	No data available			
alkyl alcohol ethoxylate	Not irritant	Rabbit	OECD 404 (EU B.4)	
N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine	Corrosive	Rabbit	OECD 404 (EU B.4)	4 hour(s)
tetrasodium ethylene diamine tetraacetate	Not irritant	Rabbit	OECD 404 (EU B.4)	

Eye irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
trisodium citrate	No data available			
alkyl alcohol ethoxylate	Severe damage	Rabbit	Method not given	
N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine	No data available			
tetrasodium ethylene diamine tetraacetate	Severe damage		Method not given	

Respiratory tract irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
trisodium citrate	No data available			
alkyl alcohol ethoxylate	No data available			
N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine	No data available			
tetrasodium ethylene diamine tetraacetate	No data available			



**Sensitisation**

Sensitisation by skin contact

<b>Ingredient(s)</b>	<b>Result</b>	<b>Species</b>	<b>Method</b>	<b>Exposure time (h)</b>
trisodium citrate	No data available			
alkyl alcohol ethoxylate	Not sensitising	Guinea pig	Method not given	
N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine	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	

Sensitisation by inhalation

<b>Ingredient(s)</b>	<b>Result</b>	<b>Species</b>	<b>Method</b>	<b>Exposure time</b>
trisodium citrate	No data available			
alkyl alcohol ethoxylate	No data available			
N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine	No data available			
tetrasodium ethylene diamine tetraacetate	No data available			

**CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**

Mutagenicity

<b>Ingredient(s)</b>	<b>Result (in-vitro)</b>	<b>Method (in-vitro)</b>	<b>Result (in-vivo)</b>	<b>Method (in-vivo)</b>
trisodium citrate	No data available		No data available	
alkyl alcohol ethoxylate	No evidence of genotoxicity, negative test results	Method not given	No evidence of genotoxicity, negative test results	Method not given
N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine	No evidence for mutagenicity, negative test results	OECD 471 (EU B.12/13) OECD 473 OECD 476	No data available	
tetrasodium ethylene diamine tetraacetate	No evidence for mutagenicity, negative test results	Method not given	No evidence of genotoxicity, negative test results	Method not given

Carcinogenicity

<b>Ingredient(s)</b>	<b>Effect</b>
trisodium citrate	No data available
alkyl alcohol ethoxylate	No evidence for carcinogenicity, weight-of-evidence
N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine	No data available
tetrasodium ethylene diamine tetraacetate	No evidence for carcinogenicity, weight-of-evidence

Toxicity for reproduction

<b>Ingredient(s)</b>	<b>Endpoint</b>	<b>Specific effect</b>	<b>Value (mg/kg bw/d)</b>	<b>Species</b>	<b>Method</b>	<b>Exposure time</b>	<b>Remarks and other effects reported</b>
trisodium citrate			No data available				
alkyl alcohol ethoxylate	NOAEL	Teratogenic effects	> 50	Rat	Not known		No known significant effects or critical hazards
N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine			No data available				No evidence for reproductive toxicity
tetrasodium ethylene diamine tetraacetate			No data available				No evidence for reproductive toxicity

**Repeated dose toxicity**

Sub-acute or sub-chronic oral toxicity

<b>Ingredient(s)</b>	<b>Endpoint</b>	<b>Value (mg/kg bw/d)</b>	<b>Species</b>	<b>Method</b>	<b>Exposure time (days)</b>	<b>Specific effects and organs affected</b>
trisodium citrate		No data available				
alkyl alcohol ethoxylate		No data available				
N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine		No data available				
tetrasodium ethylene diamine tetraacetate		No data available				

Sub-chronic dermal toxicity

<b>Ingredient(s)</b>	<b>Endpoint</b>	<b>Value (mg/kg bw/d)</b>	<b>Species</b>	<b>Method</b>	<b>Exposure time (days)</b>	<b>Specific effects and organs affected</b>
trisodium citrate		No data available				
alkyl alcohol ethoxylate		No data available				
N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine		No data available				

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tetrasodium ethylene diamine tetraacetate		No data available				
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## Sub-chronic inhalation toxicity

Ingredient(s)	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure time (days)	Specific effects and organs affected
trisodium citrate		No data available				
alkyl alcohol ethoxylate		No data available				
N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine		No data available				
tetrasodium ethylene diamine tetraacetate		No data available				

## Chronic toxicity

Ingredient(s)	Exposure route	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure time	Specific effects and organs affected	Remark
trisodium citrate			No data available					
alkyl alcohol ethoxylate	Oral	NOAEL	50	Rat	Method not given	24 month(s)	Effects on organ weights	
N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine			No data available					
tetrasodium ethylene diamine tetraacetate			No data available					

## STOT-single exposure

Ingredient(s)	Affected organ(s)
trisodium citrate	No data available
alkyl alcohol ethoxylate	Not applicable
N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine	Not applicable
tetrasodium ethylene diamine tetraacetate	No data available

## STOT-repeated exposure

Ingredient(s)	Affected organ(s)
trisodium citrate	No data available
alkyl alcohol ethoxylate	Not applicable
N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine	Kidneys
tetrasodium ethylene diamine tetraacetate	Respiratory tract

## 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)
trisodium citrate	LC <sub>50</sub>	10		Weight of evidence	
alkyl alcohol ethoxylate	LC <sub>50</sub>	1 - 10	<i>Cyprinus carpio</i>	OECD 203 (EU C.1)	96
N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine	LC <sub>50</sub>	0.1	<i>Fish</i>	OECD 203 (EU C.1)	96
tetrasodium ethylene diamine tetraacetate	LC <sub>50</sub>	> 100	<i>Lepomis</i>	OPP 72-1, static (EPA)	96

			macrochirus		
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## Aquatic short-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
trisodium citrate	EC <sub>50</sub>	> 50		Weight of evidence	
alkyl alcohol ethoxylate	EC <sub>50</sub>	1 - 10	<i>Daphnia magna Straus</i>	OECD 202, static	48
N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine	EC <sub>50</sub>	0.073	<i>Daphnia magna Straus</i>	OECD 202 (EU C.2)	48
tetrasodium ethylene diamine tetraacetate	EC <sub>50</sub>	140	<i>Daphnia magna Straus</i>	DIN 38412, Part 11	48

## Aquatic short-term toxicity - algae

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
trisodium citrate	EC <sub>50</sub>	425		Weight of evidence	
alkyl alcohol ethoxylate	EC <sub>50</sub>	1 - 10	<i>Desmodesmus subspicatus</i>	OECD 201, static	72
N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine	E <sub>r</sub> C <sub>50</sub>	0.054	<i>Pseudokirchneriella subcapitata</i>	OECD 201 (EU C.3)	96
tetrasodium ethylene diamine tetraacetate	EC <sub>50</sub>	> 100	<i>Scenedesmus obliquus</i>	88/302/EEC, Part C, static	72

## Aquatic short-term toxicity - marine species

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (days)
trisodium citrate		No data available			
alkyl alcohol ethoxylate		No data available			
N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine		No data available			
tetrasodium ethylene diamine tetraacetate		No data available			

## Impact on sewage plants - toxicity to bacteria

Ingredient(s)	Endpoint	Value (mg/l)	Inoculum	Method	Exposure time
trisodium citrate		No data available			
alkyl alcohol ethoxylate	EC <sub>10</sub>	> 10000	Activated sludge	DIN 38412 / Part 8	17 hour(s)
N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine	EC <sub>50</sub>	18	Activated sludge	OECD 209	3 hour(s)
tetrasodium ethylene diamine tetraacetate	EC <sub>20</sub>	> 500	Activated sludge	OECD 209	0.5 hour(s)

## Aquatic long-term toxicity

## Aquatic long-term toxicity - fish

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
trisodium citrate		No data available				
alkyl alcohol ethoxylate		No data available				
N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine		No data available				
tetrasodium ethylene diamine tetraacetate	NOEC	> 25.7	<i>Brachydanio rerio</i>	OECD 210	35 day(s)	

## Aquatic long-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
trisodium citrate		No data available				
alkyl alcohol ethoxylate		No data available				
N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine	NOEC	0.024	<i>Daphnia magna</i>	OECD 211	21 day(s)	
tetrasodium ethylene diamine tetraacetate	NOEC	25	<i>Daphnia magna</i>	OECD 211	21 day(s)	

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

Ingredient(s)	Endpoint	Value	Species	Method	Exposure	Effects observed
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		(mg/kg dw sediment)			time (days)	
trisodium citrate		No data available				
alkyl alcohol ethoxylate		No data available				
N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine		No data available				
tetrasodium ethylene diamine tetraacetate		No data available				

**Terrestrial toxicity**

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

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
alkyl alcohol ethoxylate	NOEC	220	<i>Eisenia fetida</i>			
N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine	LD <sub>50</sub>	> 1000	<i>Eisenia fetida</i>	OECD 207	14	
tetrasodium ethylene diamine tetraacetate	LD <sub>50</sub>	156	<i>Eisenia fetida</i>	OECD 207	14	

Terrestrial toxicity - plants, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
alkyl alcohol ethoxylate	NOEC	10	<i>Lepidium sativum</i>	OECD 208		
tetrasodium ethylene diamine tetraacetate	NOEC	0.25 - 1.25			21	

Terrestrial toxicity - birds, if available:

Terrestrial toxicity - beneficial insects, if available:

Terrestrial toxicity - soil bacteria, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine	NOEC	1000			28	

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

Abiotic degradation - photodegradation in air, if available:

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

Abiotic degradation - hydrolysis, if available:

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

Abiotic degradation - other processes, if available:

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

**Biodegradation**

Ready biodegradability - aerobic conditions

Ingredient(s)	Inoculum	Analytical method	DT <sub>50</sub>	Method	Evaluation
trisodium citrate		DOC reduction	97 % in 28 day(s)	OECD 301E	Readily biodegradable
alkyl alcohol ethoxylate	Activated sludge, aerobe	CO <sub>2</sub> production	> 60 % in 28 day(s)	OECD 301B	Readily biodegradable
N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine		Oxygen depletion	79 % in 28 day(s)	OECD 301D	Readily biodegradable
tetrasodium ethylene diamine tetraacetate					Not readily biodegradable.

Ready biodegradability - anaerobic and marine conditions, if available:

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

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Degradation in relevant environmental compartments, if available:

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

**12.3 Bioaccumulative potential**

Partition coefficient n-octanol/water (log Kow)

Ingredient(s)	Value	Method	Evaluation	Remark
trisodium citrate	No data available			
alkyl alcohol ethoxylate	-		No bioaccumulation expected	
N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine	-0.66		No bioaccumulation expected	
tetrasodium ethylene diamine tetraacetate	-13	Method not given	No bioaccumulation expected	

Bioconcentration factor (BCF)

Ingredient(s)	Value	Species	Method	Evaluation	Remark
trisodium citrate	No data available				
alkyl alcohol ethoxylate	-			No bioaccumulation expected	
N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine	No data available				
tetrasodium ethylene diamine tetraacetate	1.8	<i>Lepomis macrochirus</i>	Method not given	Low potential for bioaccumulation	

**12.4 Mobility in soil**

Adsorption/Desorption to soil or sediment

Ingredient(s)	Adsorption coefficient Log K <sub>oc</sub>	Desorption coefficient Log K <sub>oc</sub> (des)	Method	Soil/sediment type	Evaluation
trisodium citrate	No data available				
alkyl alcohol ethoxylate	No data available				Immobile in soil or sediment
N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine	No data available				
tetrasodium ethylene diamine tetraacetate	No data available				Adsorption to solid soil phase is not expected

**12.5 Results of PBT and vPvB assessment**

Substances that fulfill the criteria for PBT/vPvB, if any, are listed in section 3.

**12.6 Endocrine disrupting properties**

Endocrine disrupting properties - Environmental effects, if available:

**12.7 Other adverse effects**

No other adverse effects known.

**SECTION 13: Disposal considerations****13.1 Waste treatment methods****Waste from residues / unused products:**

The concentrated contents or contaminated packaging should be disposed of by a certified handler or according to the site permit. Release of waste to sewers is discouraged. The cleaned packaging material is suitable for energy recovery or recycling in line with local legislation.

20 01 29\* - detergents containing dangerous substances.

**European Waste Catalogue:****Empty packaging****Recommendation:****Suitable cleaning agents:**

Dispose of observing national or local regulations.

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:** 1760**14.2 UN proper shipping name:**

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Corrosive liquid, n.o.s. ( trisodium citrate , N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine )

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

Transport hazard class (and subsidiary risks): 8

**14.4 Packing group:** III**14.5 Environmental hazards:**

Environmentally hazardous: Yes

Marine pollutant: Yes

**14.6 Special precautions for user:** None known.**14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code:** The product is not transported in bulk tankers.**Other relevant information:****ADR**

Classification code: C9

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****EU regulations:**

- Regulation (EC) No. 1907/2006 - REACH
- Regulation (EC) No 1272/2008 - CLP
- Regulation (EC) No. 648/2004 - Detergents regulation
- 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

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

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

non-ionic surfactants

5 - 15 %

EDTA and salts thereof

< 5 %

Laurylamine Dipropylenediamine

The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No. 648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

**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:** MS1004237

**Version:** 01.2

**Revision:** 2021-05-30

**Reason for revision:**

Overall design adjusted in accordance with Amendment 2020/878, Annex II of Regulation (EC) No 1907/2006. This data sheet contains changes from the previous version in section(s):, 3, 6, 8, 9, 11, 12, 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.

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

**Divosan SaniPerfect VS61**

- H301 - Toxic if swallowed.
- H302 - Harmful if swallowed.
- H314 - Causes severe skin burns and eye damage.
- H318 - Causes serious eye damage.
- H332 - Harmful if inhaled.
- H373 - May cause damage to organs through prolonged or repeated exposure.
- H400 - Very toxic to aquatic life.
- H410 - Very toxic to aquatic life with long lasting effects.

**Abbreviations and acronyms:**

- AISE - The international Association for Soaps, Detergents and Maintenance Products
- ATE - Acute Toxicity Estimate
- DNEL - Derived No Effect Limit
- EC50 - effective concentration, 50%
- ERC - Environmental release categories
- EUH - CLP Specific hazard statement
- LC50 - Lethal Concentration, 50% / Median Lethal Concentration
- LCS - Life cycle stage
- LD50 - Lethal Dose, 50% / Median Lethal dose
- NOAEL - No observed adverse effect level
- NOEL - No observed effect level
- OECD - Organization for Economic Cooperation and Development
- PBT - Persistent, Bioaccumulative and Toxic
- PNEC - Predicted No Effect Concentration
- PROC - Process categories
- REACH number - REACH registration number, without supplier specific part
- vPvB - very Persistent and very Bioaccumulative

**End of Safety Data Sheet**