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## **Quatrodes Forte**

ate of	f compilation: 16/01/2014 Revised: 29/07/2021 Version: 6 (Replaced 5)
SEC	CTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING
1.1	Product identifier: Quatrodes Forte
	Other means of identification:
	Non-applicable
1.2	Relevant identified uses of the substance or mixture and uses advised against:
	Relevant uses: Disinfectant cleaner. For professional users only.
	Uses advised against: All uses not specified in this section or in section 7.3
1.3	Details of the supplier of the safety data sheet:
	MEDISEPT Sp. z o.o. ul. Ludwika Spiessa 4 20-270 Lublin - lubelskie - Polska Phone: +48 81 535 22 76 p.brewczak@medisept.pl https://medisept.pl/
1.4	Emergency telephone number: +48 81 535 22 92 at time: 8.00 a.m. – 4.00. p.m. 112 (general emergency number)
950	CTION 2: HAZARDS IDENTIFICATION **
2.1	Classification of the substance or mixture:
	CLP Regulation (EC) No 1272/2008:
	Classification of this product has been carried out in accordance with CLP Regulation (EC) No 1272/2008.
	Acute Tox. 4: Acute toxicity if swallowed, Category 4, H302 Aquatic Acute 1: Hazardous to the aquatic environment, acute hazard, Category 1, H400 Aquatic Chronic 2: Hazardous to the aquatic environment, long-term hazard, Category 2, H411 Eye Dam. 1: Serious eye damage, Category 1, H318

Skin Corr. 1B: Skin corrosion, Category 1B, H314

#### 2.2 Label elements:

## CLP Regulation (EC) No 1272/2008:

Danger



#### Hazard statements:

Acute Tox. 4: H302 - Harmful if swallowed. Aquatic Chronic 1: H410 - Very toxic to aquatic life with long lasting effects. Skin Corr. 1B: H314 - Causes severe skin burns and eye damage. Precautionary statements:

P273: Avoid release to the environment.

P280: Wear protective gloves/face protection/protective clothing.

P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P405: Store locked up.

#### 2.3 Other hazards:

Product fails to meet PBT/vPvB criteria

Endocrine-disrupting properties: The product fails to meet the criteria.

\*\* Changes with regards to the previous version

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1 Substance:

## Non-applicable

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Safety data sheet

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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS (continued)

#### 3.2 Mixture:

Chemical description: Mixture based on cationic and non-ionic surfactants

#### Components:

In accordance with Annex II of Regulation (EC) No 1907/2006 (point 3), the product contains:

	Identification		Chemical name/Classification	Concentration
CAS: EC:	2372-82-9 219-145-8	N-(3-aminopropyl)-N-c	odecylpropane-1,3-diamine <sup>1</sup> Self-classified	
Index:	Non-applicable 01-2119980592-29- XXXX	Regulation 1272/2008	Acute Tox. 3: H301; Aquatic Acute 1: H400; Aquatic Chronic 1: H410; Skin Corr. 1B: H314; STOT RE 2: H373 - Danger	
EC:	94667-33-1 619-057-3	Poly(oxy-1,2-ethanedi propanoate (salt) (Bar	yl), .alpha[2-(dide cylmethylammonio)ethyl]omega hydroxy-, Self-classified dap 26) 1	
	Non-applicable 01-2119950327-36- XXXX	Regulation 1272/2008	Acute Tox. 4: H302; Aquatic Acute 1: H400; Eye Dam. 1: H318; Skin Corr. 1B: H314 - Danger	2.5 - <10 %
CAS: EC:	107-21-1 203-473-3	Ethanediol <sup>1</sup>	Self-classified	
Index: REACH:	203-473-3 603-027-00-1 01-2119456816-28- XXXX	Regulation 1272/2008	Acute Tox. 4: H302; STOT RE 2: H373 - Warning	1 - <2.5 %
	68439-46-3 614-482-0	Alcohol ethoxylated (	C9-C11) (6 EO) 1 Self-classified	
Index:	Non-applicable Non-applicable	Regulation 1272/2008	Acute Tox. 4: H302; Eye Dam. 1: H318 - Danger	1 - <2.5 %
CAS: EC:	141-43-5 205-483-3	2-aminoethanol <sup>2</sup>	Self-classified	
Index:	205-483-3 603-030-00-8 01-2119486455-28- XXXX	Regulation 1272/2008	Acute Tox. 4: H302+H312+H332; Aquatic Chronic 3: H412; Skin Corr. 1B: H314; STOT SE 3: H335 - Danger	<1 %

<sup>1</sup> Substances presenting a health or environmental hazard which meet criteria laid down in Regulation (EU) No. 2020/878

<sup>2</sup> Substance with a Union workplace exposure limit

To obtain more information on the hazards of the substances consult sections 11, 12 and 16.

#### Other information:

	Identification			M-factor
Poly(oxy-1,2-ethanediyl) (Bardap 26)	, .alpha[2-(dide cylmethylammonio)ethyl]omega hydro	oxy-, propanoate (salt)	Acute	10
CAS: 94667-33-1	EC: 619-057-3		Chronic	10
	Identification	Spec	cific concentrat	ion limit
2-aminoethanol CAS: 141-43-5 EC: 205-483-3		% (w/w) >=5: STOT SE 3 - H	1335	

## SECTION 4: FIRST AID MEASURES

#### 4.1 Description of first aid measures:

Request medical assistance immediately, showing the SDS of this product.

#### By inhalation:

This product is not classified as hazardous through inhalation. However, in case of intoxication symptoms it is recommended to remove the person affected from the area of exposure, provide clean air and keep at rest. Request medical attention if symptoms persist.

#### By skin contact:

Remove contaminated clothing and footwear, rinse skin or shower the person affected if appropriate with plenty of cold water and neutral soap. In serious cases see a doctor. If the product causes burns or freezing, clothing should not be removed as this could worsen the injury caused if it is stuck to the skin. If blisters form on the skin, these should never be burst as this will increase the risk of infection.

#### By eye contact:

Rinse eyes thoroughly with lukewarm water for at least 15 minutes. Do not allow the person affected to rub or close their eyes. If the injured person uses contact lenses, these should be removed unless they are stuck to the eyes, in which case this could cause further damage. In all cases, after cleaning, a doctor should be consulted as quickly as possible with the SDS of the product.

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## SECTION 4: FIRST AID MEASURES (continued

## By ingestion/aspiration:

Request immediate medical assistance, showing the SDS of this product. Do not induce vomiting, because its expulsion from the stomach can be hazardous to the mucus of the main digestive tract, and also risk damage to the respiratory system through inhalation. Rinse out the mouth and throat, as they may have been affected during ingestion. In the case of loss of consciousness do not administer anything orally unless supervised by a doctor. Keep the person affected at rest.

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

Acute and delayed effects are indicated in sections 2 and 11.

#### 4.3 Indication of any immediate medical attention and special treatment needed:

Non-applicable

#### **SECTION 5: FIREFIGHTING MEASURES**

#### Extinguishing media: 5.1

#### Suitable extinguishing media:

Product is non-flammable under normal conditions of storage, handling and use. In the case of combustion as a result of improper handling, storage or use preferably use polyvalent powder extinguishers (ABC powder), in accordance with the Regulation on fire protection systems.

#### Unsuitable extinguishing media:

Non-applicable

#### 5.2 Special hazards arising from the substance or mixture:

As a result of combustion or thermal decomposition reactive sub-products are created that can become highly toxic and, consequently, can present a serious health risk.

#### 5.3 Advice for firefighters:

Depending on the magnitude of the fire it may be necessary to use full protective clothing and self-contained breathing apparatus (SCBA). Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...) in accordance with Directive 89/654/EC.

#### Additional provisions:

Act in accordance with the Internal Emergency Plan and the Information Sheets on actions to take after an accident or other emergencies. Eliminate all sources of ignition. In case of fire, cool the storage containers and tanks for products susceptible to combustion, explosion or BLEVE as a result of high temperatures. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

#### SECTION 6: ACCIDENTAL RELEASE MEASURES

#### 6.1 Personal precautions, protective equipment and emergency procedures:

#### For non-emergency personnel:

Isolate leaks provided that there is no additional risk for the people performing this task. Personal protection equipment must be used against potential contact with the spilt product (See section 8). Evacuate the area and keep out those who do not have protection.

#### For emergency responders:

Wear protective equipment. Keep unprotected persons away. See section 8.

#### 6.2 **Environmental precautions:**

Avoid at all cost any type of spillage into an aqueous medium. Contain the product absorbed appropriately in hermetically sealed containers. Notify the relevant authority in case of exposure to the general public or the environment.

#### 6.3 Methods and material for containment and cleaning up:

## It is recommended:

Absorb the spillage using sand or inert absorbent and move it to a safe place. Do not absorb in sawdust or other combustible absorbents. For any concern related to disposal consult section 13.

#### 6.4 Reference to other sections:

See sections 8 and 13.

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CAS: 107-21-1

EC: 203-473-3

# **Quatrodes Forte**

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SEC	TION 7: HANDLING AND STORAGE								
7.1	Precautions for safe handling:								
	A General precautions for safe use	A General precautions for safe use							
	Comply with the current legislation concerning Maintain order, cleanliness and dispose of us B Technical recommendations for the preventio	ing safe metho	ds (section 6).	ks with regards n	nanually handlir	ng weights.			
	<ul> <li>Product is non-flammable under normal conditions of storage, handling and use. It is recommended to transfer at slow speeds to avoid the generation of electrostatic charges that can affect flammable products. Consult section 10 for information on conditions and materials that should be avoided.</li> <li>C Technical recommendations on general occupational hygiene</li> </ul>								
	Do not eat or drink during the process, washi	ng hands afterv	wards with suitab	le cleaning produ	ucts.				
	D Technical recommendations to prevent enviro	-							
7.2	Due to the danger of this product for the envir control barriers in case of spillage, as well as <b>Conditions for safe storage, including any inc</b>	onment it is re having absorb	ent material in clo		ea containing co	ontamination			
	A Technical measures for storage								
	Minimum Temp.: 5 °C								
	Maximum Temp.: 25 °C								
	Maximum time: 36 Months								
	B General conditions for storage								
	5	aity and contac	t with food Ear a	dditional informa	tion and subcor	tion 10 5			
7.3	Avoid sources of heat, radiation, static electricity and contact with food. For additional information see subsection 10.5 Specific end use(s):								
	Except for the instructions already specified it is r product.	not necessary t	o provide any sp	ecial recommend	lation regarding	the uses of this			
SEC	TION 8: EXPOSURE CONTROLS/PERSO	NAL PROTE	ECTION						
8.1	Control parameters:								
	Substances whose occupational exposure limits legislation):	have to be mor	nitored in the wor	kplace (Europea	n OEL, not cour	ntry-specific			
	Directive (EU) 2000/39, Directive 2004/37/EC,Directive (EU) 2019/1831:	ective (EU) 200	06/15, Directive (I	EU) 2009/161, D	irective (EU) 20	17/164, Directive			
	Identification				cupational exposur	-			
	Ethanediol CAS: 107-21-1 EC: 203-473-3			IOELV (8h) IOELV (STEL)	20 ppm 40 ppm	52 mg/m <sup>3</sup> 104 mg/m <sup>3</sup>			
	2-aminoethanol			IOELV (8h)	1 ppm	2,5 mg/m <sup>3</sup>			
	CAS: 141-43-5 EC: 205-483-3			IOELV (STEL)	3 ppm	7,6 mg/m <sup>3</sup>			
	DNEL (Workers):								
			Short	exposure	Long	exposure			
	Identification		Systemic	Local	Systemic	Local			
	N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable			
	CAS: 2372-82-9	Dermal	Non-applicable	Non-applicable	8,96 mg/kg	Non-applicable			
	EC: 219-145-8	Inhalation	Non-applicable	Non-applicable	0,789 mg/m <sup>3</sup>	Non-applicable			
	Poly(oxy-1,2-ethanediyl), .alpha[2-(dide cylmethylammonio)ethyl]omega hydroxy-, propanoate (salt) (Bardap 26)	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable			
	CAS: 94667-33-1	Dermal	Non-applicable	Non-applicable	0,7 mg/kg	Non-applicable			
	EC: 619-057-3	Inhalation	Non-applicable	Non-applicable	0,5 mg/m³	Non-applicable			
	Ethanediol	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable			

Non-applicable

Non-applicable

Dermal

Inhalation

Non-applicable

35 mg/m<sup>3</sup>

106 mg/kg

Non-applicable

Non-applicable

Non-applicable

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# SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

		Short exposure		Long exposure	
Identification		Systemic	Local	Systemic	Local
2-aminoethanol	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 141-43-5	Dermal	Non-applicable	Non-applicable	3 mg/kg	Non-applicable
EC: 205-483-3	Inhalation	Non-applicable	Non-applicable	1 mg/m <sup>3</sup>	0,51 mg/m <sup>3</sup>

#### **DNEL** (General population):

		Short e	xposure	Long e	xposure
Identification		Systemic	Local	Systemic	Local
N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine	Oral	Non-applicable	Non-applicable	0,04 mg/kg	Non-applicable
CAS: 2372-82-9	Dermal	Non-applicable	Non-applicable	3,2 mg/kg	Non-applicable
EC: 219-145-8	Inhalation	Non-applicable	Non-applicable	0,118 mg/m <sup>3</sup>	Non-applicable
Poly(oxy-1,2-ethanediyl), .alpha[2-(dide cylmethylammonio)ethyl]omega hydroxy-, propanoate (salt) (Bardap 26)	Oral	Non-applicable	Non-applicable	0,35 mg/kg	Non-applicable
CAS: 94667-33-1	Dermal	Non-applicable	Non-applicable	0,35 mg/kg	Non-applicable
EC: 619-057-3	Inhalation	Non-applicable	Non-applicable	0,12 mg/m <sup>3</sup>	Non-applicable
Ethanediol	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 107-21-1	Dermal	Non-applicable	Non-applicable	53 mg/kg	Non-applicable
EC: 203-473-3	Inhalation	Non-applicable	Non-applicable	Non-applicable	7 mg/m³
2-aminoethanol	Oral	Non-applicable	Non-applicable	1,5 mg/kg	Non-applicable
CAS: 141-43-5	Dermal	Non-applicable	Non-applicable	1,5 mg/kg	Non-applicable
EC: 205-483-3	Inhalation	Non-applicable	Non-applicable	0,18 mg/m <sup>3</sup>	0,28 mg/m <sup>3</sup>

#### PNEC:

Identification				
N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine	STP	0,18 mg/L	Fresh water	0,001 mg/L
CAS: 2372-82-9	Soil	45,34 mg/kg	Marine water	0 mg/L
EC: 219-145-8	Intermittent	0 mg/L	Sediment (Fresh water)	3,2 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	0,13 mg/kg
Poly(oxy-1,2-ethanediyl), .alpha[2-(dide cylmethylammonio)ethyl]omega hydroxy-, propanoate (salt) (Bardap 26)	STP	0,118 mg/L	Fresh water	0,001 mg/L
CAS: 94667-33-1	Soil	2,83 mg/kg	Marine water	Non-applicable
EC: 619-057-3	Intermittent	Non-applicable	Sediment (Fresh water)	5,3 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	Non-applicable
Ethanediol	STP	199,5 mg/L	Fresh water	10 mg/L
CAS: 107-21-1	Soil	1,53 mg/kg	Marine water	1 mg/L
EC: 203-473-3	Intermittent	10 mg/L	Sediment (Fresh water)	37 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	3,7 mg/kg
2-aminoethanol	STP	100 mg/L	Fresh water	0,07 mg/L
CAS: 141-43-5	Soil	1,29 mg/kg	Marine water	0,007 mg/L
EC: 205-483-3	Intermittent	0,028 mg/L	Sediment (Fresh water)	0,357 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	0,036 mg/kg

## 8.2 Exposure controls:

A.- Individual protection measures, such as personal protective equipment

As a preventative measure it is recommended to use basic Personal Protective Equipment, with the corresponding <<CE marking>> in accordance with Regulation (EU) 2016/425. For more information on Personal Protective Equipment (storage, use, cleaning, maintenance, class of protection,...) consult the information leaflet provided by the manufacturer. For more information see subsection 7.1. All information contained herein is a recommendation which needs some specification from the labour risk prevention services as it is not known whether the company has additional measures at its disposal.

## B.- Respiratory protection

The use of protection equipment will be necessary if a mist forms or if the occupational exposure limits are exceeded.

C.- Specific protection for the hands

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CTION 8: EXPOSUF	RE CONTROLS/PER	RSONAL PRO	TECTION (con	itinued)	
Pictogram	PPE	Labelling	CEN Standa	ırd	Remarks
Mandatory hand protection	NON-disposable chemica protective gloves		EN ISO 374-1:2016 EN 16523-1:2015+ EN ISO 21420:	A1:2018 the	The Breakthrough Time indicated by the nufacturer must exceed the period during w e product is being used. Do not use protect ms after the product has come into contact skin.
				ve material o	can not be calculated in advance wi
D Eye and face pro	d has therefore to be ch tection	iecked prior to th	e application.		
Pictogram	PPE	Labelling	CEN Standa	Ird	Remarks
Mandatory face	Face shield	CAT II	EN 166:200 EN 167:200 EN 168:200 EN ISO 4007:2	02 Cle 02 the	ean daily and disinfect periodically accordin e manufacturer´s instructions. Use if there i risk of splashing.
E Body protection					
Pictogram	PPE	Labelling	CEN Standa	Ird	Remarks
Mandatory complete body protection	Disposable clothing for protection against chemica risks	(6	EN 13034:2005+/ EN 168:200 EN ISO 1398 1:2004/A1:20 EN ISO 6529:2 EN ISO 6530:2 EN 464:199	A1:2009 )2 32- )10 2013 2005	For professional use only. Clean periodical according to the manufacturer's instruction
F Additional emerg	ency measures				
Emergency me	asure	Standards	Emerge	ncy measure	Standards
Emergency sh	ISO 3864-1:	NSI Z358-1 2011, ISO 3864-4:20		• + • • • • • • • • • • • • • • • • • •	DIN 12 899 ISO 3864-1:2011, ISO 3864-4:2017
spillage of both the p Volatile organic cor	ne community legislation roduct and its container <b>npounds:</b> ive 2010/75/EU, this pro 0,8 : 20 °C: 8,4	r. For additional i oduct has the foll 4 % weight 1 kg/m³ (8,41 g/l	nformation see su owing characteris	bsection 7.1	mmended to avoid environmental .D
Average molecul		31 g/mol			
CTION 9: PHYSICAI	L AND CHEMICAL I	PROPERTIES			
Information on basi	ic physical and chemi	cal properties:			
For complete information	ation see the product da	itasheet.			
Appearance:					
Physical state at 20 °	°C:	Liqu	id		
Appearance:		Fluid	b		
Colour:		Colo	ourless		
Odour:		Cha	racteristic		
Odour threshold:		Non	-applicable *		
<b>Volatility:</b> Boiling point at atmos	spheric pressure:	105	°C		

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SECTION 9: PHYSICAL AND CHEMICAL PROPER	RTIES (continued)
Vapour pressure at 20 °C:	2319 Pa
Vapour pressure at 50 °C:	12216,56 Pa (12,22 kPa)
Evaporation rate at 20 °C:	Non-applicable *
Product description:	
Density at 20 °C:	987 - 1007 kg/m³
Relative density at 20 °C:	0,998
Dynamic viscosity at 20 °C:	Non-applicable *
Kinematic viscosity at 20 °C:	Non-applicable *
Kinematic viscosity at 40 °C:	Non-applicable *
Concentration:	Non-applicable *
pH:	11,05 - 11,8
Vapour density at 20 °C:	Non-applicable *
Partition coefficient n-octanol/water 20 °C:	Non-applicable *
Solubility in water at 20 °C:	Non-applicable *
Solubility properties:	Completely miscible
Decomposition temperature:	Non-applicable *
Melting point/freezing point:	Non-applicable *
Flammability:	
Flash Point:	Non Flammable (>60 °C)
Flammability (solid, gas):	Non-applicable *
Autoignition temperature:	237 °C
Lower flammability limit:	Non-applicable *
Upper flammability limit:	Non-applicable *
Particle characteristics:	
Median equivalent diameter:	Non-applicable
9.2 Other information:	
Information with regard to physical hazard classe	s:
Explosive properties:	Non-applicable *
Oxidising properties:	Non-applicable *
Corrosive to metals:	Non-applicable *
Heat of combustion:	Non-applicable *
Aerosols-total percentage (by mass) of flammable components: Other safety characteristics:	Non-applicable *
Surface tension at 20 °C:	Non-applicable *
Refraction index:	1,35 - 1,354
*Not relevant due to the nature of the product, not providing inforr	

# SECTION 10: STABILITY AND REACTIVITY

## 10.1 Reactivity:

No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7.

## 10.2 Chemical stability:

Chemically stable under the indicated conditions of storage, handling and use.

## 10.3 Possibility of hazardous reactions:

Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.

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Date of compilation: 16/01/2014 Revised: 29/07/2021 Version: 6 (Replaced 5) SECTION 10: STABILITY AND REACTIVITY (continued) 10.4 Conditions to avoid: Applicable for handling and storage at room temperature: Shock and friction Contact with air Increase in temperature Sunlight Humidity Not applicable Not applicable Not applicable Not applicable Not applicable 10.5 Incompatible materials: Acids Water Oxidising materials Combustible materials Others Avoid strong acids Not applicable Precaution Not applicable Avoid alkalis or strong bases

#### 10.6 Hazardous decomposition products:

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See subsection 10.3, 10.4 and 10.5 to find out the specific decomposition products. Depending on the decomposition conditions, complex mixtures of chemical substances can be released: carbon dioxide (CO), carbon monoxide and other organic compounds.

## SECTION 11: TOXICOLOGICAL INFORMATION

#### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008:

The experimental information related to the toxicological properties of the product itself is not available

Contains glycols. It is recommended not to breathe the vapours for prolonged periods of time due to the possibility of effects that are hazardous to the health .

#### Dangerous health implications:

In case of exposure that is repetitive, prolonged or at concentrations higher than the recommended occupational exposure limits, adverse effects on health may result, depending on the means of exposure:

A- Ingestion (acute effect):

- Acute toxicity : The consumption of a considerable dose can cause irritation in the throat, abdominal pain, nausea and vomiting.

- Corrosivity/Irritability: Corrosive product, if it is swallowed causes burns destroying the tissues. For more information about secondary effects from skin contact see section 2.

- B- Inhalation (acute effect):
  - Acute toxicity : Based on available data, the classification criteria are not met. However, it contains substances classified as hazardous for inhalation. For more information see section 3.
- Corrosivity/Irritability: Prolonged inhalation of the product is corrosive to mucous membranes and the upper respiratory tract C- Contact with the skin and the eyes (acute effect):
  - Contact with the skin: Above all, skin contact may occur as fabrics of all thicknesses can be destroyed, resulting in burns. For more information on the secondary effects see section 2.
  - Contact with the eyes: Produces serious eye damage after contact.
- D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):

- Carcinogenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for the effects mentioned. For more information see section 3.

IARC: d-limonene (3); 7-methyl-3-methyleneocta-1,6-diene (2B)

- Mutagenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

- Reproductive toxicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
- E- Sensitizing effects:
  - Respiratory: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous with sensitising effects. For more information see section 3.

- Skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

F- Specific target organ toxicity (STOT) - single exposure:

Based on available data, the classification criteria are not met. However, it contains substances classified as hazardous for inhalation. For more information see section 3.

G- Specific target organ toxicity (STOT)-repeated exposure:

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# **Quatrodes Forte**

are not met. 3. ified as hazardous fo
3. ified as
hazardous fo
Genus
Rat
Rat
-
1
1
Rat

## 11.2 Information on other hazards:

## Endocrine disrupting properties

Endocrine-disrupting properties: The product fails to meet the criteria.

#### Other information

Non-applicable

## SECTION 12: ECOLOGICAL INFORMATION

The experimental information related to the eco-toxicological properties of the product itself is not available

## 12.1 Toxicity:

## Acute toxicity:

Identification		Concentration	Species	Genus
N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine	LC50	>0.1 - 1 mg/L (96 h)		Fish
CAS: 2372-82-9	EC50	>0.1 - 1 mg/L (48 h)		Crustacean
EC: 219-145-8	EC50	>0.1 - 1 mg/L (72 h)		Algae
Poly(oxy-1,2-ethanediyl), .alpha[2-(dide cylmethylammonio) ethyl]omega hydroxy-, propanoate (salt) (Bardap 26)	LC50	0,52 mg/L (96 h)	Lepomis macrochirus	Fish
CAS: 94667-33-1	EC50	0,07 mg/L (48 h)	Daphnia magna	Crustacean
EC: 619-057-3	EC50	0,15 mg/L (72 h)	Desmodesmus subspicatus	Algae
Ethanediol	LC50	53000 mg/L (96 h)	Pimephales promelas	Fish
CAS: 107-21-1	EC50	51000 mg/L (48 h)	Daphnia magna	Crustacean
EC: 203-473-3	EC50	24000 mg/L (168 h)	Selenastrum capricornutum	Algae



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# SECTION 12: ECOLOGICAL INFORMATION (continued)

Identification		Concentration	Species	Genus
Alcohol ethoxylated (C9-C11) (6 EO)	LC50	6 mg/L (96 h)	N/A	Fish
CAS: 68439-46-3	EC50	5,3 mg/L (48 h)	N/A	Crustacean
EC: 614-482-0	EC50	Non-applicable		
2-aminoethanol	LC50	349 mg/L (96 h)	Cyprinus carpio	Fish
CAS: 141-43-5	EC50	65 mg/L (48 h)	Daphnia magna	Crustacean
EC: 205-483-3	EC50	22 mg/L (72 h)	Scenedesmus subspicatus	Algae

# Chronic toxicity:

Identification		Concentration	Species	Genus	
Poly(oxy-1,2-ethanediyl), .alpha[2-(dide cylmethylammonio) ethyl]omega hydroxy-, propanoate (salt) (Bardap 26)	NOEC	0,032 mg/L	Danio rerio	Fish	
CAS: 94667-33-1 EC: 619-057-3	NOEC	0,018 mg/L	Daphnia magna	Crustacean	
2-aminoethanol	NOEC	1,24 mg/L	Oryzias latipes	Fish	
CAS: 141-43-5 EC: 205-483-3	NOEC	0,85 mg/L	Daphnia magna	Crustacean	

## 12.2 Persistence and degradability:

## Substance-specific information:

Identification	Degradability		Biodegradability	
Ethanediol	BOD5	0,47 g O2/g	Concentration	100 mg/L
CAS: 107-21-1	COD	1,29 g O2/g	Period	14 days
EC: 203-473-3	BOD5/COD	0,36	% Biodegradable	90 %
Alcohol ethoxylated (C9-C11) (6 EO)	BOD5	Non-applicable	Concentration	Non-applicable
CAS: 68439-46-3	COD	Non-applicable	Period	28 days
EC: 614-482-0	BOD5/COD	Non-applicable	% Biodegradable	60 %
2-aminoethanol	BOD5	Non-applicable	Concentration	20 mg/L
CAS: 141-43-5	COD	Non-applicable	Period	21 days
EC: 205-483-3	BOD5/COD	Non-applicable	% Biodegradable	90 %

#### Bioaccumulative potential: 12.3

#### Substance-specific information:

Identification	Bioaccumulation potential		
Poly(oxy-1,2-ethanediyl), .alpha[2-(dide cylmethylammonio)ethyl]omega hydroxy-, propanoate (salt) (Bardap 26)	BCF	81	
CAS: 94667-33-1	Pow Log		
EC: 619-057-3	Potential	Moderate	
Ethanediol	BCF	10	
CAS: 107-21-1	Pow Log	-1.36	
EC: 203-473-3	Potential	Low	
2-aminoethanol	BCF	3	
CAS: 141-43-5	Pow Log	-1.31	
EC: 205-483-3	Potential	Low	

#### 12.4 Mobility in soil:

Identification	Absorpt	Absorption/desorption		Volatility	
Poly(oxy-1,2-ethanediyl), .alpha[2-(dide cylmethylammonio)ethyl]omega hydroxy-, propanoate (salt) (Bardap 26)	Кос	437805	Henry	Non-applicable	
CAS: 94667-33-1	Conclusion	Immobile	Dry soil	Non-applicable	
EC: 619-057-3	Surface tension	Non-applicable	Moist soil	Non-applicable	
Ethanediol	Koc	0	Henry	1,327E-1 Pa·m³/mol	
CAS: 107-21-1	Conclusion	Very High	Dry soil	No	
EC: 203-473-3	Surface tension	4,989E-2 N/m (25 °C)	Moist soil	No	
2-aminoethanol	Koc	0.27	Henry	3,7E-5 Pa⋅m³/mol	
CAS: 141-43-5	Conclusion	Very High	Dry soil	No	
EC: 205-483-3	Surface tension	5,025E-2 N/m (25 °C)	Moist soil	No	

# 12.5 Results of PBT and vPvB assessment:

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SECTION 12: ECOLOGICAL INFORMATION (continued)

Product fails to meet PBT/vPvB criteria

## 12.6 Endocrine disrupting properties:

Endocrine-disrupting properties: The product fails to meet the criteria.

## 12.7 Other adverse effects:

Not described

## SECTION 13: DISPOSAL CONSIDERATIONS

#### 13.1 Waste treatment methods:

Code	Description	Waste class (Regulation (EU) No 1357/2014)	
20 01 29*	detergents containing hazardous substances	Dangerous	

#### Type of waste (Regulation (EU) No 1357/2014):

HP14 Ecotoxic, HP8 Corrosive

#### Waste management (disposal and evaluation):

Consult the authorized waste service manager on the assessment and disposal operations in accordance with Annex 1 and Annex 2 (Directive 2008/98/EC). As under 15 01 (2014/955/EC) of the code and in case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as non-dangerous residue. Waste should not be disposed of to drains. See paragraph 6.2.

## Regulations related to waste management:

In accordance with Annex II of Regulation (EC) No 1907/2006 (REACH) the community or state provisions related to waste management are stated

Community legislation: Directive 2008/98/EC, 2014/955/EU, Regulation (EU) No 1357/2014

# SECTION 14: TRANSPORT INFORMATION

Transport of dangerous goods by land:

With regard to ADR 2021 and RID 2021:

	14.1 14.2	UN number or ID number: UN proper shipping name:	UN1903 DISINFECTANT, LIQUID, CORROSIVE, N.O.S. (N-(3-aminopropyl)- N-dodecylpropane-1,3-diamine)
	14.3	Transport hazard class(es):	8
· •		Labels:	8
	14.4	Packing group:	П
	14.5	Environmental hazards:	Yes
	14.6	Special precautions for user	
		Special regulations:	274
		Tunnel restriction code:	E
		Physico-Chemical properties:	see section 9
		Limited quantities:	1 L
	14.7	Maritime transport in bulk according to IMO instruments:	Non-applicable
Transport of dan	igerou	s goods by sea:	
With regard to IM	DG 40-	20:	

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SECTION 14: TRANSPOR	T INFORMATION (continued	
14.1 14.2	UN number or ID number: UN proper shipping name:	UN1903 DISINFECTANT, LIQUID, CORROSIVE, N.O.S. (N-(3-aminopropyl)- N-dodecylpropane-1,3-diamine)
	Transport hazard class(es): Labels:	8 8
14.4	Packing group:	II
14.5	Marine pollutant:	Yes
14.6	• •	
	Special regulations:	274
	EmS Codes:	F-A, S-B
	Physico-Chemical properties:	see section 9
	Limited quantities:	1L
	Segregation group:	Non-applicable
14.7	Maritime transport in bulk according to IMO instruments:	Non-applicable
Transport of dangerou	us goods by air:	
With regard to IATA/IC/	AO 2023:	
A 14.1	UN number or ID number:	UN1903
	UN proper shipping name:	DISINFECTANT, LIQUID, CORROSIVE, N.O.S. (N-(3-aminopropyl)- N-dodecylpropane-1,3-diamine)
14.3	Transport hazard class(es):	8
	Labels:	8
14.4	Packing group:	II
14.5		Yes
14.6	Special precautions for user	
	Physico-Chemical properties:	see section 9
14.7	Maritime transport in bulk according to IMO instruments:	Non-applicable

## SECTION 15: REGULATORY INFORMATION

#### Safety, health and environmental regulations/legislation specific for the substance or mixture: 15.1

Composition of the active ingredients (Regulation (EU) No 528/2012): Poly(oxy-1.2-ethanediyl), .alpha.-[2-(dide cylmethylammonio)ethyl]- .omega.- hydroxy-, propanoate (salt) (Bardap 26) (3.533%); N-(3-aminopropyl)-N-dodecylpropane-1,3diamine (3.76%)

Candidate substances for authorisation under the Regulation (EC) No 1907/2006 (REACH): Non-applicable

Substances included in Annex XIV of REACH ("Authorisation List") and sunset date: Non-applicable

Regulation (EC) No 1005/2009, about substances that deplete the ozone layer: Non-applicable

Article 95, REGULATION (EU) No 528/2012: N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine (Product-type 2, 3, 4, 6, 8, 11, 12, 13); Poly(oxy-1,2-ethanediyl), .alpha.-[2-(dide cylmethylammonio)ethyl]- .omega.- hydroxy-, propanoate (salt) (Bardap 26) (Product-type 2, 4, 8, 10)

REGULATION (EU) No 649/2012, in relation to the import and export of hazardous chemical products: Non-applicable

#### Regulation (EC) No 648/2004 on detergents:

In accordance with this regulation the product complies with the following:

The tensoactives contained in this mixture comply with the biodegradibility criteria stipulated in Regulation (EC) nº648/2004 on detergents. The information to prove this is available to the relevant authorities of the Member States and will be shown to them by direct request or the request of a detergent manufacturer.

## Labelling for contents:

Component	Concentration interval
Disinfectants	
Non-ionic surfactants	% (w/w) < 5
perfumes	

Allergenic fragrances: d-limonene (LIMONENE).

Preservation agents: N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine (LAURYLAMINE DIPROPYLENEDIAMINE).

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# SECTION 15: REGULATORY INFORMATION (continued)

#### Seveso III:

Section	Description	Lower-tier requirements	Upper-tier requirements
E1	ENVIRONMENTAL HAZARDS	100	200

Limitations to commercialisation and the use of certain dangerous substances and mixtures (Annex XVII REACH, etc ....)

Shall not be used in:

---ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays,

—tricks and jokes,

-games for one or more participants, or any article intended to be used as such, even with ornamental aspects.

#### Specific provisions in terms of protecting people or the environment:

It is recommended to use the information included in this safety data sheet as a basis for conducting workplace-specific risk assessments in order to establish the necessary risk prevention measures for the handling, use, storage and disposal of this product.

## Other legislation:

The product could be affected by sectorial legislation

#### 15.2 Chemical safety assessment:

The supplier has not carried out evaluation of chemical safety.

## SECTION 16: OTHER INFORMATION

#### Legislation related to safety data sheets:

The SDS shall be supplied in an official language of the country where the product is placed on the market. This safety data sheet has been designed in accordance with ANNEX II-Guide to the compilation of safety data sheets of Regulation (EC) No 1907/2006 (COMMISSION REGULATION (EU) 2020/878).

Modifications related to the previous Safety Data Sheet which concerns the ways of managing risks.:

CLP Regulation (EC) No 1272/2008 (SECTION 2, SECTION 16):

Precautionary statements

#### Texts of the legislative phrases mentioned in section 2:

H302: Harmful if swallowed.

H314: Causes severe skin burns and eye damage.

H318: Causes serious eye damage.

H400: Very toxic to aquatic life.

H411: Toxic to aquatic life with long lasting effects.

#### Texts of the legislative phrases mentioned in section 3:

The phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the individual components which appear in section 3

#### CLP Regulation (EC) No 1272/2008:

Acute Tox. 3: H301 - Toxic if swallowed.

Acute Tox. 4: H302 - Harmful if swallowed.

Acute Tox. 4: H302+H312+H332 - Harmful if swallowed, in contact with skin or if inhaled.

Aquatic Acute 1: H400 - Very toxic to aquatic life.

Aquatic Chronic 1: H410 - Very toxic to aquatic life with long lasting effects.

Aquatic Chronic 3: H412 - Harmful to aquatic life with long lasting effects.

Eye Dam. 1: H318 - Causes serious eye damage.

Skin Corr. 1B: H314 - Causes severe skin burns and eye damage.

STOT RE 2: H373 - May cause damage to organs through prolonged or repeated exposure (Oral).

STOT SE 3: H335 - May cause respiratory irritation.

## Advice related to training:

Training is recommended in order to prevent industrial risks for staff using this product and to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.

Principal bibliographical sources:

http://echa.europa.eu

http://eur-lex.europa.eu

Abbreviations and acronyms:

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SECTION 16: OTHER INFO	RMATION (continued)	
ADR: European agreemen IMDG: International maritin IATA: International Air Trar ICAO: International Civil A COD: Chemical Oxygen D BOD5: 5day biochemical o BCF: Bioconcentration fac LD50: Lethal Dose 50 LC50: Lethal Concentratio EC50: Effective concentrat LogPOW: Octanolwater pa Koc: Partition coefficient o UFI: unique formula identiti IARC: International Agence	me dangerous goods code hsport Association viation Organisation lemand xygen demand tor n 50 tion 50 artition coefficient f organic carbon fier	al carriage of dangerous goods by road

The information contained in this safety data sheet is based on sources, technical knowledge and current legislation at European and state level, without being able to guarantee its accuracy. This information cannot be considered a guarantee of the properties of the product, it is simply a description of the security requirements. The occupational methodology and conditions for users of this product are not within our awareness or control, and it is ultimately the responsibility of the user to take the necessary measures to obtain the legal requirements concerning the manipulation, storage, use and disposal of chemical products. The information on this safety data sheet only refers to this product, which should not be used for needs other than those specified.