


Merida Nano Sanitin plus+**SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**

- 1.1 Product identifier:** Merida Nano Sanitin plus+
- Other means of identification:**
Non-applicable
- 1.2 Relevant identified uses of the substance or mixture and uses advised against:**
Relevant uses: Detergent. For professional users/industrial user 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:**
Merida Sp. z o.o.
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Phone: +48 (71) 33 97 888 - Fax: +48 (71) 33 97 888
grzegorz.pawlak@merida.com.pl
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- 1.4 Emergency telephone number:** +48 71 33 97 888 (godz.: 8.00-15.00 pn-pt) lub całodobowo 112

SECTION 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.
Aquatic Chronic 3: Hazardous to the aquatic environment, long-term hazard, Category 3, H412
Eye Dam. 1: Serious eye damage, Category 1, H318
Skin Corr. 1: Skin corrosion, Category 1, H314
- 2.2 Label elements:**
CLP Regulation (EC) No 1272/2008:
Danger

Hazard statements:
Aquatic Chronic 3: H412 - Harmful to aquatic life with long lasting effects.
Skin Corr. 1: H314 - Causes severe skin burns and eye damage.
Precautionary statements:
P264: Wash hands thoroughly after handling
P273: Avoid release to the environment.
P280: Wear protective gloves/protective clothing/eye protection/protective footwear.
P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.
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 center/doctor.
P501: Dispose of contents/container in accordance with regulations on hazardous waste or packaging and packaging waste respectively.
Supplementary information:
EUH208: Contains d-limonene. May produce an allergic reaction.
Substances that contribute to the classification
Glycolic acid; Isotridecanol, ethoxylated > 2.5 mol EO; Didecyldimethylammonium chloride;
- 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

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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS **

3.1 Substance:

Non-applicable

3.2 Mixture:

Chemical description: Mixture composed of chemical products

Components:

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

Identification	Chemical name/Classification	Concentration
CAS: 67-63-0 EC: 200-661-7 Index: 603-117-00-0 REACH:01-2119457558-25-XXXX	propan-2-ol⁽¹⁾ Regulation 1272/2008 Eye Irrit. 2: H319; Flam. Liq. 2: H225; STOT SE 3: H336 - Danger	ATP CLP00  7,5 - <10 %
CAS: 79-14-1 EC: 201-180-5 Index: Non-applicable REACH:01-2119485579-17-XXXX	Glycolic acid⁽¹⁾ Regulation 1272/2008 Acute Tox. 4: H332; Eye Dam. 1: H318; Skin Corr. 1B: H314 - Danger	Self-classified  2,5 - <5 %
CAS: 69011-36-5 EC: 500-241-6 Index: Non-applicable REACH:Non-applicable	Isotridecanol, ethoxylated> 2.5 mol EO⁽¹⁾ Regulation 1272/2008 Acute Tox. 4: H302; Eye Dam. 1: H318 - Danger	Self-classified  1,5 - <2,5 %
CAS: 7173-51-5 EC: 230-525-2 Index: 612-131-00-6 REACH:01-2119945987-15-XXXX	Didecyltrimethylammonium chloride⁽¹⁾ Regulation 1272/2008 Acute Tox. 3: H301; Aquatic Acute 1: H400; Aquatic Chronic 2: H411; Eye Dam. 1: H318; Skin Corr. 1B: H314; EUH071 - Danger	Self-classified  1,5 - <2,5 %
CAS: 69011-36-5 EC: 500-241-6 Index: Non-applicable REACH:01-2119976362-32-XXXX	Isotridecanol, ethoxylated (5 mol EO)⁽¹⁾ Regulation 1272/2008 Aquatic Chronic 3: H412; Eye Irrit. 2: H319 - Warning	Self-classified  0,5 - <1,5 %
CAS: 5989-27-5 EC: 227-813-5 Index: 601-096-00-2 REACH:01-2119529223-47-XXXX	d-limonene⁽¹⁾ Regulation 1272/2008 Aquatic Chronic 1: H410; Asp. Tox. 1: H304; Flam. Liq. 3: H226; Skin Irrit. 2: H315; Skin Sens. 1: H317 - Danger	Self-classified  0,25 - <0,5 %
CAS: 112-34-5 EC: 203-961-6 Index: 603-096-00-8 REACH:01-2119475104-44-XXXX	2-(2-butoxyethoxy)ethanol⁽²⁾ Regulation 1272/2008 Eye Irrit. 2: H319 - Warning	ATP CLP00  0,1 - <0,25 %
CAS: 25307-17-9 EC: 246-807-3 Index: Non-applicable REACH:01-2119510876-35-XXXX	2,2'-(octadec-9-enylimino)bisethanol (2 EO)⁽¹⁾ Regulation 1272/2008 Acute Tox. 4: H302; Aquatic Acute 1: H400; Aquatic Chronic 1: H410; Skin Corr. 1B: H314 - Danger	Self-classified  0,1 - <0,25 %

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

⁽²⁾ 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
Didecyltrimethylammonium chloride	Acute 10
CAS: 7173-51-5 EC: 230-525-2	Chronic 1
2-(2-butoxyethoxy)ethanol	Acute 10
CAS: 112-34-5 EC: 203-961-6	Chronic 1
2,2'-(octadec-9-enylimino)bisethanol (2 EO)	Acute 10
CAS: 25307-17-9 EC: 246-807-3	Chronic 1

** Changes with regards to the previous version

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures:

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

By inhalation:

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Merida Nano Sanitin plus+**SECTION 4: FIRST AID MEASURES (continued)**

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.

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.

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

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**5.1 Extinguishing media:****Suitable extinguishing media:**

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

Unsuitable extinguishing media:

IT IS RECOMMENDED NOT to use full jet water as an extinguishing agent.

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. Evacuate the area and keep out those without protection. Personal protection equipment must be used against potential contact with the spilt product (See section 8). Above all prevent the formation of any vapour-air flammable mixtures, through either ventilation or the use of an inert medium. Remove any source of ignition. Eliminate electrostatic charges by interconnecting all the conductive surfaces on which static electricity could form, and also ensuring that all surfaces are connected to the ground.

For emergency responders:

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SECTION 6: ACCIDENTAL RELEASE MEASURES (continued)

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.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling:

A.- General precautions for safe use

Comply with the current legislation concerning the prevention of industrial risks with regards manually handling weights. Maintain order, cleanliness and dispose of using safe methods (section 6).

B.- Technical recommendations for the prevention of fires and explosions

Avoid the evaporation of the product as it contains flammable substances, which could form flammable vapour/air mixtures in the presence of sources of ignition. Control sources of ignition (mobile phones, sparks,...) and transfer at slow speeds to avoid the creation of electrostatic charges. Consult section 10 for conditions and materials that should be avoided.

C.- Technical recommendations on general occupational hygiene

Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

D.- Technical recommendations to prevent environmental risks

Due to the danger of this product for the environment it is recommended to use it within an area containing contamination control barriers in case of spillage, as well as having absorbent material in close proximity.

7.2 Conditions for safe storage, including any incompatibilities:

A.- Technical measures for storage

Minimum Temp.: -10 °C

Maximum Temp.: 40 °C

Maximum time: 24 Months

B.- General conditions for storage

Avoid sources of heat, radiation, static electricity and contact with food. For additional information see subsection 10.5

7.3 Specific end use(s):

Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of this product.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters:

Substances whose occupational exposure limits have to be monitored in the workplace (European OEL, not country-specific legislation):

Directive (EU) 2000/39, Directive 2004/37/EC, Directive (EU) 2006/15, Directive (EU) 2009/161, Directive (EU) 2017/164, Directive (EU) 2019/1831:

Identification		Occupational exposure limits	
2-(2-butoxyethoxy)ethanol CAS: 112-34-5 EC: 203-961-6		IOELV (8h)	10 ppm 67,5 mg/m³
		IOELV (STEL)	15 ppm 101,2 mg/m³

DNEL (Workers):

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
propan-2-ol	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 67-63-0	Dermal	Non-applicable	Non-applicable	888 mg/kg	Non-applicable
EC: 200-661-7	Inhalation	Non-applicable	Non-applicable	500 mg/m³	Non-applicable
Glycollic acid	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 79-14-1	Dermal	Non-applicable	Non-applicable	57,69 mg/kg	Non-applicable
EC: 201-180-5	Inhalation	9,2 mg/m³	9,2 mg/m³	10,56 mg/m³	1,53 mg/m³
Isotridecanol, ethoxylated> 2.5 mol EO	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 69011-36-5	Dermal	Non-applicable	Non-applicable	2080 mg/kg	Non-applicable
EC: 500-241-6	Inhalation	Non-applicable	Non-applicable	294 mg/m³	Non-applicable
Isotridecanol, ethoxylated (5 mol EO)	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 69011-36-5	Dermal	Non-applicable	Non-applicable	2080 mg/kg	Non-applicable
EC: 500-241-6	Inhalation	Non-applicable	Non-applicable	294 mg/m³	Non-applicable
d-limonene	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 5989-27-5	Dermal	Non-applicable	Non-applicable	9,5 mg/kg	Non-applicable
EC: 227-813-5	Inhalation	Non-applicable	Non-applicable	66,7 mg/m³	Non-applicable
2-(2-butoxyethoxy)ethanol	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 112-34-5	Dermal	Non-applicable	Non-applicable	83 mg/kg	Non-applicable
EC: 203-961-6	Inhalation	Non-applicable	101,2 mg/m³	67,5 mg/m³	67,5 mg/m³
2,2'-(octadec-9-enylimino)bisethanol (2 EO)	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 25307-17-9	Dermal	Non-applicable	Non-applicable	0,42 mg/kg	Non-applicable
EC: 246-807-3	Inhalation	Non-applicable	Non-applicable	2,96 mg/m³	Non-applicable

DNEL (General population):

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
propan-2-ol	Oral	Non-applicable	Non-applicable	26 mg/kg	Non-applicable
CAS: 67-63-0	Dermal	Non-applicable	Non-applicable	319 mg/kg	Non-applicable
EC: 200-661-7	Inhalation	Non-applicable	Non-applicable	89 mg/m³	Non-applicable
Glycollic acid	Oral	Non-applicable	Non-applicable	0,75 mg/kg	Non-applicable
CAS: 79-14-1	Dermal	Non-applicable	Non-applicable	28,85 mg/kg	Non-applicable
EC: 201-180-5	Inhalation	2,3 mg/m³	2,3 mg/m³	2,6 mg/m³	Non-applicable
Isotridecanol, ethoxylated> 2.5 mol EO	Oral	Non-applicable	Non-applicable	25 mg/kg	Non-applicable
CAS: 69011-36-5	Dermal	Non-applicable	Non-applicable	1250 mg/kg	Non-applicable
EC: 500-241-6	Inhalation	Non-applicable	Non-applicable	87 mg/m³	Non-applicable
Isotridecanol, ethoxylated (5 mol EO)	Oral	Non-applicable	Non-applicable	25 mg/kg	Non-applicable
CAS: 69011-36-5	Dermal	Non-applicable	Non-applicable	1250 mg/kg	Non-applicable
EC: 500-241-6	Inhalation	Non-applicable	Non-applicable	87 mg/m³	Non-applicable
d-limonene	Oral	Non-applicable	Non-applicable	4,8 mg/kg	Non-applicable
CAS: 5989-27-5	Dermal	Non-applicable	Non-applicable	4,8 mg/kg	Non-applicable
EC: 227-813-5	Inhalation	Non-applicable	Non-applicable	16,6 mg/m³	Non-applicable
2-(2-butoxyethoxy)ethanol	Oral	Non-applicable	Non-applicable	5 mg/kg	Non-applicable
CAS: 112-34-5	Dermal	Non-applicable	Non-applicable	50 mg/kg	Non-applicable
EC: 203-961-6	Inhalation	Non-applicable	60,7 mg/m³	40,5 mg/m³	40,5 mg/m³
2,2'-(octadec-9-enylimino)bisethanol (2 EO)	Oral	Non-applicable	Non-applicable	0,15 mg/kg	Non-applicable
CAS: 25307-17-9	Dermal	Non-applicable	Non-applicable	0,15 mg/kg	Non-applicable
EC: 246-807-3	Inhalation	Non-applicable	Non-applicable	0,522 mg/m³	Non-applicable

PNEC:

Identification			
propan-2-ol	STP	2251 mg/L	Fresh water
CAS: 67-63-0	Soil	28 mg/kg	Marine water
EC: 200-661-7	Intermittent	140,9 mg/L	Sediment (Fresh water)
	Oral	0,16 g/kg	Sediment (Marine water)

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

Identification				
Glycollic acid CAS: 79-14-1 EC: 201-180-5	STP	7 mg/L	Fresh water	0,031 mg/L
	Soil	0,007 mg/kg	Marine water	0,003 mg/L
	Intermittent	0,312 mg/L	Sediment (Fresh water)	0,115 mg/kg
	Oral	0,01666 g/kg	Sediment (Marine water)	0,011 mg/kg
Isotridecanol, ethoxylated > 2.5 mol EO CAS: 69011-36-5 EC: 500-241-6	STP	1,4 mg/L	Fresh water	0,074 mg/L
	Soil	0,1 mg/kg	Marine water	0,007 mg/L
	Intermittent	0,015 mg/L	Sediment (Fresh water)	0,604 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	0,06 mg/kg
Didecyltrimethylammonium chloride CAS: 7173-51-5 EC: 230-525-2	STP	0,14 mg/L	Fresh water	0,0011 mg/L
	Soil	1,4 mg/kg	Marine water	0,00011 mg/L
	Intermittent	0,00021 mg/L	Sediment (Fresh water)	61,86 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	6,186 mg/kg
Isotridecanol, ethoxylated (5 mol EO) CAS: 69011-36-5 EC: 500-241-6	STP	1,4 mg/L	Fresh water	0,074 mg/L
	Soil	0,1 mg/kg	Marine water	0,007 mg/L
	Intermittent	0,015 mg/L	Sediment (Fresh water)	0,604 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	0,06 mg/kg
d-limonene CAS: 5989-27-5 EC: 227-813-5	STP	1,8 mg/L	Fresh water	0,014 mg/L
	Soil	0,763 mg/kg	Marine water	0,0014 mg/L
	Intermittent	Non-applicable	Sediment (Fresh water)	3,85 mg/kg
	Oral	0,133 g/kg	Sediment (Marine water)	0,385 mg/kg
2-(2-butoxyethoxy)ethanol CAS: 112-34-5 EC: 203-961-6	STP	200 mg/L	Fresh water	1,1 mg/L
	Soil	0,32 mg/kg	Marine water	0,11 mg/L
	Intermittent	11 mg/L	Sediment (Fresh water)	4,4 mg/kg
	Oral	0,056 g/kg	Sediment (Marine water)	0,44 mg/kg
2,2'-(octadec-9-enylimino)bisethanol (2 EO) CAS: 25307-17-9 EC: 246-807-3	STP	1,5 mg/L	Fresh water	0,00016 mg/L
	Soil	5 mg/kg	Marine water	0,000016 mg/L
	Intermittent	0,00043 mg/L	Sediment (Fresh water)	1,692 mg/kg
	Oral	2 g/kg	Sediment (Marine water)	0,169 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

Pictogram	PPE	Labelling	CEN Standard	Remarks
 Mandatory hand protection	Chemical protective gloves (Material: PVC)		EN ISO 21420:2020	Replace the gloves at any sign of deterioration.

As the product is a mixture of several substances, the resistance of the glove material can not be calculated in advance with total reliability and has therefore to be checked prior to the application.

D.- Eye and face protection


Pictogram	PPE	Labelling	CEN Standard	Remarks
 Mandatory face protection	Panoramic glasses against splash/projections.		EN 166:2002 EN ISO 4007:2018	Clean daily and disinfect periodically according to the manufacturer's instructions. Use if there is a risk of splashing.

E.- Body protection


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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

Pictogram	PPE	Labelling	CEN Standard	Remarks
	Work clothing			Replace before any evidence of deterioration. For periods of prolonged exposure to the product for professional/industrial users CE III is recommended, in accordance with the regulations in EN ISO 6529:2013, EN ISO 6530:2005, EN ISO 13688:2013, EN 464:1994.
	Anti-slip work shoes		EN ISO 20347:2012	Replace before any evidence of deterioration. For periods of prolonged exposure to the product for professional/industrial users CE III is recommended, in accordance with the regulations in EN ISO 20345:2012 y EN 13832-1:2007

F.- Additional emergency measures

Emergency measure	Standards	Emergency measure	Standards
 Emergency shower	ANSI Z358-1 ISO 3864-1:2011, ISO 3864-4:2011	 Eyewash stations	DIN 12 899 ISO 3864-1:2011, ISO 3864-4:2011

Environmental exposure controls:

In accordance with the community legislation for the protection of the environment it is recommended to avoid environmental spillage of both the product and its container. For additional information see subsection 7.1.D

Volatile organic compounds:

With regard to Directive 2010/75/EU, this product has the following characteristics:

V.O.C. (Supply):	8,39 % weight
V.O.C. density at 20 °C:	84,32 kg/m ³ (84,32 g/L)
Average carbon number:	3,46
Average molecular weight:	65,26 g/mol

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties:

For complete information see the product datasheet.

Appearance:

Physical state at 20 °C:	Liquid
Appearance:	Fluid
Colour:	Pink
Odour:	Characteristic
Odour threshold:	Non-applicable *

Volatility:

Boiling point at atmospheric pressure:	99 °C
Vapour pressure at 20 °C:	2424 Pa
Vapour pressure at 50 °C:	12733,53 Pa (12,73 kPa)
Evaporation rate at 20 °C:	Non-applicable *

Product description:

Density at 20 °C:	1000 - 1010 kg/m ³
Relative density at 20 °C:	1,01
Dynamic viscosity at 20 °C:	Non-applicable *
Kinematic viscosity at 20 °C:	Non-applicable *
Kinematic viscosity at 40 °C:	Non-applicable *
Concentration:	Non-applicable *

*Not relevant due to the nature of the product, not providing information property of its hazards.

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (continued)

pH:	1,5 - 2,5
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:	Non-applicable *
Decomposition temperature:	Non-applicable *
Melting point/freezing point:	Non-applicable *
Flammability:	
Flash Point:	49 °C (Does not maintain combustion)
Flammability (solid, gas):	Non-applicable *
Autoignition temperature:	204 °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 classes:

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:	Non-applicable *

Other safety characteristics:

Surface tension at 20 °C:	Non-applicable *
Refraction index:	Non-applicable *

*Not relevant due to the nature of the product, not providing information property of its hazards.

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.

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	Precaution	Precaution	Not applicable

10.5 Incompatible materials:

Acids	Water	Oxidising materials	Combustible materials	Others
Not applicable	Not applicable	Precaution	Not applicable	Avoid alkalis or strong bases

10.6 Hazardous decomposition products:

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 (CO₂), carbon monoxide and other organic compounds.

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Merida Nano Sanitin plus+
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 : Based on available data, the classification criteria are not met, however, it contains substances classified as dangerous for consumption. For more information see section 3.
- 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: ethanol (1); propan-2-ol (3); d-limonene (3)
- 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. However, it contains substances classified as dangerous with sensitising effects. 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:

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

H- Aspiration hazard:

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

Other information:

Non-applicable

Specific toxicology information on the substances:

Identification	Acute toxicity		Genus
propan-2-ol	LD50 oral	5280 mg/kg	Rat
CAS: 67-63-0	LD50 dermal	12800 mg/kg	Rat
EC: 200-661-7	LC50 inhalation	72,6 mg/L (4 h)	Rat

** Changes with regards to the previous version

- CONTINUED ON NEXT PAGE -

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SECTION 11: TOXICOLOGICAL INFORMATION ** (continued)

Identification	Acute toxicity		Genus
Didecyltrimethylammonium chloride CAS: 7173-51-5 EC: 230-525-2	LD50 oral	238 mg/kg	Rat
	LD50 dermal	3342 mg/kg	Rabbit
	LC50 inhalation	Non-applicable	
Glycolic acid CAS: 79-14-1 EC: 201-180-5	LD50 oral	2040 mg/kg	Rat
	LD50 dermal	Non-applicable	
	LC50 inhalation	11 mg/L (ATEi)	
Isotridecanol, ethoxylated > 2.5 mol EO CAS: 69011-36-5 EC: 500-241-6	LD50 oral	500 mg/kg	Rat
	LD50 dermal	Non-applicable	
	LC50 inhalation	Non-applicable	
d-limonene CAS: 5989-27-5 EC: 227-813-5	LD50 oral	4400 mg/kg	Rat
	LD50 dermal	>5000 mg/kg	Rabbit
	LC50 inhalation	Non-applicable	
2,2'-(octadec-9-enylimino)bisethanol (2 EO) CAS: 25307-17-9 EC: 246-807-3	LD50 oral	1260 mg/kg	Rat
	LD50 dermal	Non-applicable	
	LC50 inhalation	Non-applicable	

11.2 Information on other hazards:

Endocrine disrupting properties

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

Other information

Non-applicable

** Changes with regards to the previous version

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
propan-2-ol CAS: 67-63-0 EC: 200-661-7	LC50	9640 mg/L (96 h)	Pimephales promelas
	EC50	13299 mg/L (48 h)	Daphnia magna
	EC50	1000 mg/L (72 h)	Scenedesmus subspicatus
Didecyltrimethylammonium chloride CAS: 7173-51-5 EC: 230-525-2	LC50	>0.1 - 1 mg/L (96 h)	Fish
	EC50	>0.1 - 1 mg/L (48 h)	Crustacean
	EC50	>0.1 - 1 mg/L (72 h)	Algae
Isotridecanol, ethoxylated (5 mol EO) CAS: 69011-36-5 EC: 500-241-6	LC50	>10 - 100 mg/L (96 h)	Fish
	EC50	>10 - 100 mg/L (48 h)	Crustacean
	EC50	>10 - 100 mg/L (72 h)	Algae
d-limonene CAS: 5989-27-5 EC: 227-813-5	LC50	>0.1 - 1 mg/L (96 h)	Fish
	EC50	>0.1 - 1 mg/L (48 h)	Crustacean
	EC50	>0.1 - 1 mg/L (72 h)	Algae
2-(2-butoxyethoxy)ethanol CAS: 112-34-5 EC: 203-961-6	LC50	1300 mg/L (96 h)	Lepomis macrochirus
	EC50	2850 mg/L (24 h)	Daphnia magna
	EC50	53 mg/L (192 h)	Microcystis aeruginosa
2,2'-(octadec-9-enylimino)bisethanol (2 EO) CAS: 25307-17-9 EC: 246-807-3	LC50	>0.1 - 1 mg/L (96 h)	Fish
	EC50	>0.1 - 1 mg/L (48 h)	Crustacean
	EC50	>0.1 - 1 mg/L (72 h)	Algae

Chronic toxicity:

** Changes with regards to the previous version

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Merida Nano Sanitin plus+

SECTION 12: ECOLOGICAL INFORMATION ** (continued)

Identification	Concentration	Species	Genus
Didecyltrimethylammonium chloride	NOEC	Non-applicable	
CAS: 7173-51-5 EC: 230-525-2	NOEC	0,021 mg/L	Daphnia magna
			Crustacean

12.2 Persistence and degradability:

Substance-specific information:

Identification	Degradability	Biodegradability
propan-2-ol	BOD5	1,19 g O ₂ /g
CAS: 67-63-0	COD	2,23 g O ₂ /g
EC: 200-661-7	BOD5/COD	0,53
		Concentration
		100 mg/L
		Period
		14 days
		% Biodegradable
		86 %
Glycolic acid	BOD5	Non-applicable
CAS: 79-14-1	COD	Non-applicable
EC: 201-180-5	BOD5/COD	Non-applicable
		Concentration
		100 mg/L
		Period
		14 days
		% Biodegradable
		86 %
Didecyltrimethylammonium chloride	BOD5	Non-applicable
CAS: 7173-51-5	COD	Non-applicable
EC: 230-525-2	BOD5/COD	Non-applicable
		Concentration
		100 mg/L
		Period
		28 days
		% Biodegradable
		0 %
d-limonene	BOD5	Non-applicable
CAS: 5989-27-5	COD	Non-applicable
EC: 227-813-5	BOD5/COD	Non-applicable
		Concentration
		10 mg/L
		Period
		28 days
		% Biodegradable
		71,4 %
2-(2-butoxyethoxy)ethanol	BOD5	0,25 g O ₂ /g
CAS: 112-34-5	COD	2,08 g O ₂ /g
EC: 203-961-6	BOD5/COD	0,12
		Concentration
		100 mg/L
		Period
		28 days
		% Biodegradable
		92 %
2,2'-(octadec-9-enylimino)bisethanol (2 EO)	BOD5	Non-applicable
CAS: 25307-17-9	COD	Non-applicable
EC: 246-807-3	BOD5/COD	Non-applicable
		Concentration
		10 mg/L
		Period
		28 days
		% Biodegradable
		88 %

12.3 Bioaccumulative potential:

Substance-specific information:

Identification	Bioaccumulation potential
propan-2-ol	BCF
CAS: 67-63-0	Pow Log
EC: 200-661-7	Potential
	3
	0.05
	Low
Glycolic acid	BCF
CAS: 79-14-1	Pow Log
EC: 201-180-5	Potential
	3
	-1.11
	Low
Didecyltrimethylammonium chloride	BCF
CAS: 7173-51-5	Pow Log
EC: 230-525-2	Potential
	71
	2.59
	Moderate
d-limonene	BCF
CAS: 5989-27-5	Pow Log
EC: 227-813-5	Potential
	4.83
2-(2-butoxyethoxy)ethanol	BCF
CAS: 112-34-5	Pow Log
EC: 203-961-6	Potential
	0.46
	0.56
	Low

12.4 Mobility in soil:

Identification	Absorption/desorption	Volatility
propan-2-ol	Koc	1.5
CAS: 67-63-0	Conclusion	Henry
EC: 200-661-7	Surface tension	2,24E-2 N/m (25 °C)
		Henry
		8,207E-1 Pa·m ³ /mol
		Dry soil
		Yes
		Moist soil
		Yes
d-limonene	Koc	6324
CAS: 5989-27-5	Conclusion	Immobil
EC: 227-813-5	Surface tension	2,675E-2 N/m (25 °C)
		Henry
		2533,13 Pa·m ³ /mol
		Dry soil
		Yes
		Moist soil
		Yes

** Changes with regards to the previous version

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Merida Nano Sanitin plus+
SECTION 12: ECOLOGICAL INFORMATION ** (continued)

Identification	Absorption/desorption			Volatility	
2-(2-butoxyethoxy)ethanol	Koc	48	Henry	7,2E-9 Pa·m ³ /mol	
CAS: 112-34-5	Conclusion	Very High	Dry soil	No	
EC: 203-961-6	Surface tension	3,395E-2 N/m (25 °C)	Moist soil	No	
2,2'-(octadec-9-enylimino)bisethanol (2 EO)	Koc	Non-applicable	Henry	Non-applicable	
CAS: 25307-17-9	Conclusion	Non-applicable	Dry soil	Non-applicable	
EC: 246-807-3	Surface tension	2,8E-2 N/m (25 °C)	Moist soil	Non-applicable	

12.5 Results of PBT and vPvB assessment:

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

**** Changes with regards to the previous version**

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):

HP8 Corrosive, HP14 Ecotoxic

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 UN number or ID number: | Non-applicable |
| 14.2 UN proper shipping name: | Non-applicable |
| 14.3 Transport hazard class(es): | Non-applicable |
| Labels: | Non-applicable |
| 14.4 Packing group: | Non-applicable |
| 14.5 Environmental hazards: | No |
| 14.6 Special precautions for user | |
| Special regulations: | Non-applicable |
| Tunnel restriction code: | Non-applicable |
| Physico-Chemical properties: | see section 9 |
| Limited quantities: | Non-applicable |
| 14.7 Maritime transport in bulk according to IMO instruments: | Non-applicable |

Transport of dangerous goods by sea:

With regard to IMDG 40-20:

**** Changes with regards to the previous version**

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Merida Nano Sanitin plus+
SECTION 14: TRANSPORT INFORMATION ** (continued)

14.1 UN number or ID number:	Non-applicable
14.2 UN proper shipping name:	Non-applicable
14.3 Transport hazard class(es):	Non-applicable
Labels:	Non-applicable
14.4 Packing group:	Non-applicable
14.5 Marine pollutant:	No
14.6 Special precautions for user	
Special regulations:	Non-applicable
EmS Codes:	
Physico-Chemical properties:	see section 9
Limited quantities:	Non-applicable
Segregation group:	Non-applicable
14.7 Maritime transport in bulk according to IMO instruments:	Non-applicable

Transport of dangerous goods by air:

With regard to IATA/ICAO 2023:

14.1 UN number or ID number:	Non-applicable
14.2 UN proper shipping name:	Non-applicable
14.3 Transport hazard class(es):	Non-applicable
Labels:	Non-applicable
14.4 Packing group:	Non-applicable
14.5 Environmental hazards:	No
14.6 Special precautions for user	
Physico-Chemical properties:	see section 9
14.7 Maritime transport in bulk according to IMO instruments:	Non-applicable

** Changes with regards to the previous version

SECTION 15: REGULATORY INFORMATION
15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:

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: propan-2-ol (Product-type 1, 2, 4) ; Glycolic acid (Product-type 2, 3, 4) ; Didecylmethylammonium chloride (Product-type 1, 2, 3, 4, 8, 10, 11, 12) ; Geraniol (Product-type 18, 19)

REGULATION (EU) No 649/2012, in relation to the import and export of hazardous chemical products: Contains Didecylmethylammonium chloride

Regulation (EC) No 648/2004 on detergents:

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

The tensioactives contained in this mixture comply with the biodegradability criteria stipulated in Regulation (EC) n°648/2004 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
Non-ionic surfactants	% (w/w) < 5
perfumes	

Allergenic fragrances: Citronellol (CITRONELLOL), d-limonene (LIMONENE), Geraniol (GERANIOL), Linalool (LINALOOL).

Seveso III:

Non-applicable

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

- CONTINUED ON NEXT PAGE -

Merida Nano Sanitin plus+**SECTION 15: REGULATORY INFORMATION (continued)**

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

- Regulation (EC) No 1223/2009 of the European Parliament and of the Council of 30 November 2009 on cosmetic products
- Regulation (EC) No 648/2004 of the European Parliament and of the Council of 31 March 2004 on detergents
- Commission Regulation (EC) No 907/2006 of 20 June 2006 amending Regulation (EC) No 648/2004 of the European Parliament and of the Council on detergents, in order to adapt Annexes III and VII
- Commission Regulation (EC) No 551/2009 of 25 June 2009 amending Regulation (EC) No 648/2004 of the European Parliament and of the Council on detergents, in order to adapt Annexes V and VI thereto (surfactant derogation)

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.:

COMMISSION REGULATION (EU) 2020/878

COMPOSITION/INFORMATION ON INGREDIENTS (SECTION 3, SECTION 11, SECTION 12):

- New declared substances
 - 2-(2-butoxyethoxy)ethanol (112-34-5)
 - 2,2'-(octadec-9-enylimino)bisethanol (2 EO) (25307-17-9)
 - Isotridecanol, ethoxylated (5 mol EO) (69011-36-5)
- Removed substances
 - but-2-yne-1,4-diol (110-65-6)

Substances that contribute to the classification (SECTION 2):

- New declared substances
 - Reaction mass of [(2-hydroxyethyl)imino]bis(methylene) bisphosphonic acid and phosphonic acid, P-[(tetrahydro-2-hydroxy-2-oxido-4H-1,4,2-oxazaphosphorin-4-yl)methyl]

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

- Hazard statements
- Precautionary statements
- Substances contained in EUH208:
 - Removed substances
 - but-2-yne-1,4-diol (110-65-6)

TRANSPORT INFORMATION (SECTION 14):

- UN number
- Packing group

Texts of the legislative phrases mentioned in section 2:

H314: Causes severe skin burns and eye damage.

H318: Causes serious eye damage.

H412: Harmful 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:

Merida Nano Sanitin plus+**SECTION 16: OTHER INFORMATION ** (continued)**

Acute Tox. 3: H301 - Toxic if swallowed.
Acute Tox. 4: H302 - Harmful if swallowed.
Acute Tox. 4: H332 - Harmful 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 2: H411 - Toxic to aquatic life with long lasting effects.
Aquatic Chronic 3: H412 - Harmful to aquatic life with long lasting effects.
Asp. Tox. 1: H304 - May be fatal if swallowed and enters airways.
Eye Dam. 1: H318 - Causes serious eye damage.
Eye Irrit. 2: H319 - Causes serious eye irritation.
Flam. Liq. 2: H225 - Highly flammable liquid and vapour.
Flam. Liq. 3: H226 - Flammable liquid and vapour.
Skin Corr. 1B: H314 - Causes severe skin burns and eye damage.
Skin Irrit. 2: H315 - Causes skin irritation.
Skin Sens. 1: H317 - May cause an allergic skin reaction.
STOT SE 3: H336 - May cause drowsiness or dizziness.

Classification procedure:

Skin Corr. 1: Calculation method
Eye Dam. 1: Calculation method
Aquatic Chronic 3: Calculation method

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:

ADR: European agreement concerning the international carriage of dangerous goods by road
IMDG: International maritime dangerous goods code
IATA: International Air Transport Association
ICAO: International Civil Aviation Organisation
COD: Chemical Oxygen Demand
BOD5: 5day biochemical oxygen demand
BCF: Bioconcentration factor
LD50: Lethal Dose 50
LC50: Lethal Concentration 50
EC50: Effective concentration 50
LogPOW: Octanolwater partition coefficient
Koc: Partition coefficient of organic carbon
UFI: unique formula identifier
IARC: International Agency for Research on Cancer

**** Changes with regards to the previous version**

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.

- END OF SAFETY DATA SHEET -