

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier: Ranger II Ranger

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

Relevant uses: Disinfectant cleaner. For professional 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:

Amega Sciences plc Unit 17 Lanchester Way NN11 8PH Daventry - Northamptonshire - United Kingdom Phone.: 44 1327 704444 - Fax: +44 (0) 1327 311 226 admin@amega-sciences.com

1.4 Emergency telephone number: +44 (0) 7802844234 (for Emergency ONLY)

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 Acute 1: Hazardous to the aquatic environment, acute hazard, Category 1, H400 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. 1A: Skin corrosion, Category 1A, H314 STOT SE 3: Respiratory tract toxicity, single exposure, Category 3, H335

2.2 Label elements:

CLP Regulation (EC) No 1272/2008:

Danger



Hazard statements:

Aquatic Acute 1: H400 - Very toxic to aquatic life Aquatic Chronic 3: H412 - Harmful to aquatic life with long lasting effects Skin Corr. 1A: H314 - Causes severe skin burns and eye damage STOT SE 3: H335 - May cause respiratory irritation

Precautionary statements:

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

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

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

P501: Dispose of the contents/containers in accordance with the current legislation on waste treatment

Substances that contribute to the classification

Propionic acid (CAS: 79-09-4); Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides (M=10) (CAS: 68424-85-1); Didecyldimethylammonium chloride (CAS: 7173-51-5); Heptamethyl glycidyl oxypropyl trisiloxane polymer with ethoxylated cocoamine and acetic acid

2.3 Other hazards:

Product fails to meet PBT/vPvB criteria

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substance:

Non-applicable



SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS (continued)

3.2 Mixture:

Chemical description: Peroxide/s

Components:

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

]	Identification		Chemical name/Classification	Concentration	
	9-09-4	Propionic acid 🗆 1	ATP CLP00		
Index: 60	01-176-3 07-089-00-0 1-2119486971-24-XXXX	Regulation 1272/2008	Flam. Liq. 3: H226; Skin Corr. 1B: H314 - Danger	10 - <20 %	
EC: 27	8424-85-1 70-325-2	Quaternary ammoniu	um compounds, benzyl-C12-16-alkyldimethyl, chlorides (M=10) Self-classified		
	lon-applicable 1-2119983287-23-XXXX	Regulation 1272/2008	Acute Tox. 4: H302+H312; Aquatic Acute 1: H400; Skin Corr. 1B: H314 - Danger	10 - <20 %	
	7-92-9	Citric Acid 🗆 1	Self-classified		
Index: N	01-069-1 Ion-applicable 1-2119457026-42-XXXX	Regulation 1272/2008	Eye Irrit. 2: H319 - Warning	10 - <20 %	
	173-51-5	Didecyldimethylamm	onium chloride 1 Self-classified		
Index: 6	30-525-2 12-131-00-6 1-2119945987-15-XXXX	Regulation 1272/2008	Acute Tox. 4: H302; Aquatic Acute 1: H400; Aquatic Chronic 2: H411; Eye Dam. 1: H318; Skin Corr. 1B: H314 - Danger	5 - <10 %	
	7-63-0	Propan-2-ol□¹□	ATP CLP00		
Index: 60	00-661-7 03-117-00-0 1-2119457558-25-XXXX	Regulation 1272/2008	Eye Irrit. 2: H319; Flam. Liq. 2: H225; STOT SE 3: H336 - Danger	1 - <3 %	
EC: N	lon-applicable lon-applicable	Heptamethyl glycidy acetic acid□¹□	I oxypropyl trisiloxane polymer with ethox-ylated cocoamine and Self-classified		
	Ion-applicable Ion-applicable	Regulation 1272/2008	Acute Tox. 4: H302; Aquatic Chronic 2: H411; Eye Dam. 1: H318; Skin Irrit. 2: H315 - Danger	1 - <3 %	
	4649-84-3	Amines, C12-14-alky	Idimethyl□1□ Self-classified		
Index: N	83-464-9 Ion-applicable 1-2119485584-26-XXXX	Regulation 1272/2008	Acute Tox. 4: H302; Aquatic Acute 1: H400; Aquatic Chronic 1: H410; Skin Corr. 1B: H314 - Danger	<1 %	

□1□ Substances presenting a health or environmental hazard which meet criteria laid down in Regulation (EU) No. 2015/830

To obtain more information on the hazards of the substances consult sections 8, 11, 12, 15 and 16.

Other information:

	M-factor			
Quaternary ammonium compo	Acute	10		
CAS: 68424-85-1 EC: 2	270-325-2	Chronic	10	
Didecyldimethylammonium ch	Didecyldimethylammonium chloride			
CAS: 7173-51-5 EC: 2	230-525-2	Chronic	1	

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures:

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

By inhalation:

Remove the person affected from the area of exposure, provide with fresh air and keep at rest. In serious cases such as cardiorespiratory failure, artificial resuscitation techniques will be necessary (mouth to mouth resuscitation, cardiac massage, oxygen supply, etc.) requiring immediate medical assistance.

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:



SECTION 4: FIRST AID MEASURES (continued)

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:

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. IT IS NOT RECOMMENDED 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:

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. Destroy 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.

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.- Precautions for safe manipulation

Comply with the current legislation concerning the prevention of industrial risks. Keep containers hermetically sealed. Control spills and residues, destroying them with safe methods (section 6). Avoid leakages from the container. Maintain order and cleanliness where dangerous products are used.

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. Avoid splashes and pulverizations. Consult section 10 for conditions and materials that should be avoided.

C.- Technical recommendations to prevent ergonomic and toxicological risks

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.:3 °CMaximum Temp.:30 °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

Version: 1

Identification Environmental limits				
Propionic acid		IOELV (8h)	10 ppm	31 mg/m ³
CAS: 79-09-4 E	EC: 201-176-3	IOELV (STEL)	20 ppm	62 mg/m ³

DNEL (Workers):

		Short	Short exposure		Long exposure	
Identification	Systemic	Local	Systemic	Local		
Propionic acid	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable	
CAS: 79-09-4	Dermal	Non-applicable	Non-applicable	132 mg/kg	Non-applicable	
EC: 201-176-3	Inhalation	62 mg/m ³	62 mg/m ³	31 mg/m ³	31 mg/m ³	
Didecyldimethylammonium chloride	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable	
CAS: 7173-51-5	Dermal	Non-applicable	Non-applicable	8,6 mg/kg	Non-applicable	
EC: 230-525-2	Inhalation	Non-applicable	Non-applicable	18,2 mg/m ³	Non-applicable	
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/m ³	Non-applicable	
Amines, C12-14-alkyldimethyl	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable	
CAS: 84649-84-3	Dermal	Non-applicable	Non-applicable	Non-applicable	Non-applicable	
EC: 283-464-9	Inhalation	Non-applicable	1 mg/m ³	Non-applicable	1 mg/m ³	



SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

		Short	exposure	Long e	exposure
Identification		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/m ³	Non-applicable
Amines, C12-14-alkyldimethyl	Oral	Non-applicable	Non-applicable	0,5 mg/kg	Non-applicable
CAS: 84649-84-3	Dermal	Non-applicable	Non-applicable	Non-applicable	Non-applicable
EC: 283-464-9	Inhalation	Non-applicable	Non-applicable	Non-applicable	Non-applicable

PNEC:

Identification				
Propionic acid	STP	5 mg/L	Fresh water	0,5 mg/L
CAS: 79-09-4	Soil	0,1258 mg/kg	Marine water	0,05 mg/L
EC: 201-176-3	Intermittent	5 mg/L	Sediment (Fresh water)	1,86 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	0,186 mg/kg
Citric Acid	STP	1000 mg/L	Fresh water	0,44 mg/L
CAS: 77-92-9	Soil	33,1 mg/kg	Marine water	0,044 mg/L
EC: 201-069-1	Intermittent	Non-applicable	Sediment (Fresh water)	34,6 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	3,46 mg/kg
Didecyldimethylammonium chloride	STP	0,595 mg/L	Fresh water	0,002 mg/L
CAS: 7173-51-5	Soil	1,4 mg/kg	Marine water	0,0002 mg/L
EC: 230-525-2	Intermittent	0,00029 mg/L	Sediment (Fresh water)	2,82 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	0,28 mg/kg
Propan-2-ol	STP	2251 mg/L	Fresh water	140,9 mg/L
CAS: 67-63-0	Soil	28 mg/kg	Marine water	140,9 mg/L
EC: 200-661-7	Intermittent	140,9 mg/L	Sediment (Fresh water)	552 mg/kg
	Oral	160 g/kg	Sediment (Marine water)	552 mg/kg
Amines, C12-14-alkyldimethyl	STP	0,13 mg/L	Fresh water	0,00026 mg/L
CAS: 84649-84-3	Soil	1 mg/kg	Marine water	0,00003 mg/L
EC: 283-464-9	Intermittent	0,00026 mg/L	Sediment (Fresh water)	1,25 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	0,125 mg/kg

8.2 Exposure controls:

A.- General security and hygiene measures in the work place

Version: 1

As a preventative measure it is recommended to use basic Personal Protective Equipment, with the corresponding <<CE marking>> in accordance with Directive 89/686/EC. 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	Protective gloves against minor risks	CATI		Replace gloves in case of any sign of damage. For prolonged periods of exposure to the product for professional users/industrials, we recommend using CE III gloves in line with standards EN 420 and EN 374.

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

D.- Ocular and facial protection



Safety data sheet According to 1907/2006/EC (REACH), 2015/830/EU

Ranger II Ranger

	Pictogram		PPE	Labelling		CEN Standard		Remarks
	Mandatory face protection		nic glasses against sh/projections.		E	EN 166:2001 N ISO 4007:2018		daily and disinfect periodically according nanufacturer 's instructions. Use if there is risk of splashing.
E E	Body protection		DDE	Labolling		CEN Ctandard		Domosico
- F	Pictogram		PPE	Labelling		CEN Standard		Remarks ce before any evidence of deterioration. F
		w	ork clothing	CATI			profess in a	ds of prolonged exposure to the product f sionalindustrial users CE III is recommend accordance with the regulations in EN ISO 5529:2013, EN ISO 6530:2005, EN ISO 13688:2013, EN 464:1994.
		Anti-s	slip work shoes		EI	N ISO 20347:2012	perio profess	ce before any evidence of deterioration. F ds of prolonged exposure to the product f sionalindustrial users CE III is recommend accordance with the regulations in EN ISO 20345:2012 y EN 13832-1:2007
F A	dditional emerge	ency mea	asures					
	Emergency mea	asure	St	andards		Emergency measure	ure	Standards
	Emergency sho	ower		SI Z358-1 11, ISO 3864-4:20	011	Eyewash station	IS	DIN 12 899 ISO 3864-1:2011, ISO 3864-4:2011
Envi	ironmental exp	osure c	ontrols:			·		
In ac spilla	cordance with th	ne comm roduct a	unity legislation nd its container.			he environment it i ation see subsection		nmended to avoid environmental
With	regard to Direct	ive 2010	/75/EU, this prod	duct has the fol	llowing	characteristics:		
V	.O.C. (Supply):		17,63	8 % weight				
V	.O.C. density at	20 ºC:	182,4	ł2 kg/m³ (182,	,42 g/L	.)		
A	verage carbon n	umber:	3					
	verage molecula	r woight	. 72.01	. g/mol				

9.1 Information on basic physical and chemical properties:

For complete information see the product datasheet.	
Appearance:	
Physical state at 20 °C:	Liquid
Appearance:	Characteristic
Colour:	Yellowish
Odour:	Characteristic
Odour threshold:	Non-applicable *
Volatility:	
Boiling point at atmospheric pressure:	Non-applicable *
Vapour pressure at 20 °C:	Non-applicable *
Vapour pressure at 50 °C:	11926,45 Pa (11,93 kPa)
Evaporation rate at 20 °C:	Non-applicable *
Product description:	
*Not relevant due to the nature of the product, not providing inform	mation property of its hazards.
001177	



SECT	TON 9: PHYSICAL AND CHEMICAL PROPERTIES	G (continued)
	Density at 20 °C:	1035 - 1035 kg/m³
	Relative density at 20 °C:	1,025 - 1,045
	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:	0,5 - 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:	Completely miscible
	Decomposition temperature:	Non-applicable *
	Melting point/freezing point:	Non-applicable *
	Explosive properties:	Non-applicable *
	Oxidising properties:	Non-applicable *
	Flammability:	
	Flash Point:	Non Flammable (>60 °C)
	Flammability (solid, gas):	Non-applicable *
	Autoignition temperature:	Non-applicable *
	Lower flammability limit:	Non-applicable *
	Upper flammability limit:	Non-applicable *
	Explosive:	
	Lower explosive limit:	Non-applicable *
	Upper explosive limit:	Non-applicable *
9.2	Other information:	
	Surface tension at 20 °C:	Non-applicable *
	Refraction index:	Non-applicable *
	*Not relevant due to the nature of the product, not providing infor	mation 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 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:



SECTION 10: STABILITY AND REACTIVITY (continued)

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.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects:

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

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, as it does not contain substances classified as dangerous 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 dangerous for the effects mentioned. For more information see section 3.
 - IARC: Propan-2-ol (3)
 - Mutagenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous 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 dangerous 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 dangerous with sensitising effects. For more information see section 3.
 - Cutaneous: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.
- F- Specific target organ toxicity (STOT) single exposure:

Causes irritation in respiratory passages, which is normally reversible and limited to the upper respiratory passages.

- 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 dangerous 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 dangerous for this effect. For more information see section 3.
- H- Aspiration hazard:

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

Other information:

Non-applicable

Specific toxicology information on the substances:

Version: 1



SECTION 11: TOXICOLOGICAL INFORMATION (continued)

Identification	A	cute toxicity	Genus
Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides (M=10)	LD50 oral	344 mg/kg	Rat
CAS: 68424-85-1	LD50 dermal	1100 mg/kg	Rat
EC: 270-325-2	LC50 inhalation	>20 mg/L (4 h)	
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
Didecyldimethylammonium chloride	LD50 oral	410 mg/kg	Rat
CAS: 7173-51-5	LD50 dermal	>2000 mg/kg	
EC: 230-525-2	LC50 inhalation	>5 mg/L (4 h)	
Propionic acid	LD50 oral	3455 mg/kg	
CAS: 79-09-4	LD50 dermal	>2000 mg/kg	
EC: 201-176-3	LC50 inhalation	>20 mg/L (4 h)	
Citric Acid	LD50 oral	5400 mg/kg	Rat
CAS: 77-92-9	LD50 dermal	>2000 mg/kg	
EC: 201-069-1	LC50 inhalation	>5 mg/L (4 h)	
Heptamethyl glycidyl oxypropyl trisiloxane polymer with ethox-ylated cocoamine and acetic acid	LD50 oral	2000 mg/kg	Rat
CAS: Non-applicable	LD50 dermal	>2000 mg/kg	
EC: Non-applicable	LC50 inhalation	Non-applicable	
Amines, C12-14-alkyldimethyl	LD50 oral	>2000 mg/kg	
CAS: 84649-84-3	LD50 dermal	>2000 mg/kg	
EC: 283-464-9	LC50 inhalation	>20 mg/L	

ATE mix		Ingredient(s) of unknown toxicity
Oral	2067,72 mg/kg (Calculation method)	0 %
Dermal	11000 mg/kg (Calculation method)	0 %
Inhalation	>20 mg/L (4 h) (Calculation method)	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:

Identification		Acute toxicity	Species	Genus
Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides (M=10)	LC50	0.28 mg/L (96 h)	Pimephales promelas	Fish
CAS: 68424-85-1	EC50	0.016 mg/L (48 h)	Daphnia magna	Crustacean
EC: 270-325-2	EC50	0.049 mg/L (72 h)	Pseudokirchneriella subcapitata	Algae
Citric Acid	LC50	1516 mg/L (96 h)	Lepomis macrochirus	Fish
CAS: 77-92-9	EC50	160 mg/L (48 h)	N/A	Crustacean
EC: 201-069-1	EC50	Non-applicable		
Didecyldimethylammonium chloride	LC50	0.5 mg/L (96 h)	Brachydanio rerio	Fish
CAS: 7173-51-5	EC50	0.03 mg/L (48 h)	Daphnia magna	Crustacean
EC: 230-525-2	EC50	0.06 mg/L (96 h)	Selenastrum capricornutum	Algae
Propan-2-ol	LC50	9640 mg/L (96 h)	Pimephales promelas	Fish
CAS: 67-63-0	EC50	13299 mg/L (48 h)	Daphnia magna	Crustacean
EC: 200-661-7	EC50	1000 mg/L (72 h)	Scenedesmus subspicatus	Algae
Heptamethyl glycidyl oxypropyl trisiloxane polymer with ethox- ylated cocoamine and acetic acid	LC50	1 - 10 mg/L (96 h)		Fish
CAS: Non-applicable	EC50	1 - 10 mg/L		Crustacear
EC: Non-applicable	EC50	1 - 10 mg/L		Algae

Version: 1



Safety data sheet According to 1907/2006/EC (REACH), 2015/830/EU

Ranger II Ranger

SECTION 12: ECOLOGICAL INFORMATION (continued)

	Identification		Acute toxicity	Species	Genus
Am	ines, C12-14-alkyldimethyl	LC50	0.1 - 1 mg/L (96 h)		Fish
CAS	S: 84649-84-3	EC50	0.1 - 1 mg/L		Crustacean
EC:	: 283-464-9	EC50	0.1 - 1 mg/L		Algae

12.2 Persistence and degradability:

Identification		gradability	Biodegradability	
Citric Acid	BOD5	Non-applicable	Concentration	10 mg/L
CAS: 77-92-9	COD	Non-applicable	Period	28 days
EC: 201-069-1	BOD5/COD	Non-applicable	% Biodegradable	97 %
Didecyldimethylammonium chloride	BOD5	Non-applicable	Concentration	100 mg/L
CAS: 7173-51-5	COD	Non-applicable	Period	28 days
EC: 230-525-2	BOD5/COD	Non-applicable	% Biodegradable	0 %
Propan-2-ol	BOD5	1.19 g O2/g	Concentration	100 mg/L
CAS: 67-63-0	COD	2.23 g O2/g	Period	14 days
EC: 200-661-7	BOD5/COD	0.53	% Biodegradable	86 %

12.3 Bioaccumulative potential:

Identification	Bioaccu	mulation potential
Citric Acid	BCF	3
CAS: 77-92-9	Pow Log	-1.55
EC: 201-069-1	Potential	Low
Didecyldimethylammonium chloride	BCF	71
CAS: 7173-51-5	Pow Log	2.59
EC: 230-525-2	Potential	Moderate
Propan-2-ol	BCF	3
CAS: 67-63-0	Pow Log	0.05
EC: 200-661-7	Potential	Low
Amines, C12-14-alkyldimethyl	BCF	
CAS: 84649-84-3	Pow Log	5.47
EC: 283-464-9	Potential	

12.4 Mobility in soil:

Identification	Absorp	Absorption/desorption		ility
Propionic acid	Кос	Non-applicable	Henry	Non-applicable
CAS: 79-09-4	Conclusion	Non-applicable	Dry soil	Non-applicable
EC: 201-176-3	Surface tension	2,62E-2 N/m (25 °C)	Moist soil	Non-applicable
Citric Acid	Кос	Non-applicable	Henry	Non-applicable
CAS: 77-92-9	Conclusion	Non-applicable	Dry soil	Non-applicable
EC: 201-069-1	Surface tension	2,045E-2 N/m (350,93 °C)	Moist soil	Non-applicable
Propan-2-ol	Кос	1.5	Henry	8,207E-1 Pa·m³/mol
CAS: 67-63-0	Conclusion	Very High	Dry soil	Yes
EC: 200-661-7	Surface tension	2,24E-2 N/m (25 °C)	Moist soil	Yes

12.5 Results of PBT and vPvB assessment:

Product fails to meet PBT/vPvB criteria

12.6 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	



SECTION 13: DISPOSAL CONSIDERATIONS (continued)

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. We do not recommended disposal down the drain. 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 2019 and RID 2019:

	14.1	UN number:	UN1903
	> ^{14.2}	UN proper shipping name:	DISINFECTANT, LIQUID, CORROSIVE, N.O.S. (Propionic acid; Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides (M=10))
	14.3	Transport hazard class(es):	8
		Labels:	8
	14.4	Packing group:	II
	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	Transport in bulk according to Annex II of Marpol and the IBC Code:	Non-applicable
Transport of (dangero	us goods by sea:	
With regard to	IMDG 38	-16:	
	14.1	UN number:	UN1903
	14.2	UN proper shipping name:	DISINFECTANT, LIQUID, CORROSIVE, N.O.S. (Propionic acid; Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides (M=10))
	1/1 2	Transport hazard class(es):	8
	14.5		
	14.5	Labels:	8
			8 II
	14.4	Labels:	
	14.4 14.5	Labels: Packing group:	II
	14.4 14.5	Labels: Packing group: Environmental hazards:	II
	14.4 14.5	Labels: Packing group: Environmental hazards: Special precautions for user	II Yes
	14.4 14.5	Labels: Packing group: Environmental hazards: Special precautions for user Special regulations:	II Yes 274
	14.4 14.5	Labels: Packing group: Environmental hazards: Special precautions for user Special regulations: EmS Codes:	II Yes 274 F-A, S-B
	14.4 14.5	Labels: Packing group: Environmental hazards: Special precautions for user Special regulations: EmS Codes: Physico-Chemical properties:	II Yes 274 F-A, S-B see section 9
	14.4 14.5 14.6	Labels: Packing group: Environmental hazards: Special precautions for user Special regulations: EmS Codes: Physico-Chemical properties: Limited quantities:	II Yes 274 F-A, S-B see section 9 1 L
Transport of	14.4 14.5 14.6 14.7	Labels: Packing group: Environmental hazards: Special precautions for user Special regulations: EmS Codes: Physico-Chemical properties: Limited quantities: Segregation group: Transport in bulk according to Annex II of Marpol and	II Yes 274 F-A, S-B see section 9 1 L 1



SECTIO		INFORMATION (continued)						
SECTIO	^ ^		101202					
11-		UN number:	UN1903					
	B 14.2	UN proper shipping name:	DISINFECTANT, LIQUID, CORROSIVE, N.O.S. (Propionic acid; Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides (M=10))					
	14.3	Transport hazard class(es):	8					
		Labels:	8					
	14.4	Packing group:	II					
	14.5	Environmental hazards:	Yes					
	14.6	Special precautions for user						
		Physico-Chemical properties:	see section 9					
	14.7	Transport in bulk according	Non-applicable					
		to Annex II of Marpol and						
		the IBC Code:						
SECTIO	15: REGULATORY	' INFORMATION						
0201101								
15.1 Sa	fety, health and env	vironmental regulations/legisl	ation specific for the substance or mixture:					
Die	lecyldimethylammoniu	m chloride.	rotect the initial properties of the treated article. Contains					
Ca	Candidate substances for authorisation under the Regulation (EC) No 1907/2006 (REACH): Non-applicable							
Su	bstances included in A	nnex XIV of REACH ("Authorisation	n List") and sunset date: Non-applicable					
Re	gulation (EC) No 1005	/2009, about substances that depl	ete the ozone layer: Non-applicable					
(Pi 3, RE Die	Regulation (EC) No 1005/2009, about substances that deplete the ozone layer: Non-applicable Article 95, REGULATION (EU) No 528/2012: Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides (M=10) (Product-type 1, 2, 3, 4, 8, 10, 11, 12, 22) ; Citric Acid (Product-type 2) ; Didecyldimethylammonium chloride (Product-type 1, 2, 3, 4, 6, 8, 10, 11, 12) ; Propan-2-ol (Product-type 1, 2, 4) REGULATION (EU) No 649/2012, in relation to the import and export of hazardous chemical products: Contains Didecyldimethylammonium chloride							
		8/2004 on detergents:						
In	accordance with this r	egulation the product complies wit	h the following:					
de by	tergents. The informat direct request or the r	ion to prove this is available to the equest of a detergent manufacture	biodegradibility criteria stipulated in Regulation (EC) nº648/2004 on relevant authorities of the Member States and will be shown to them er.					
La	belling for contents	:						
			Component					
Di	sinfectants							
pe	rfumes							
Se	veso III:							

	Section	Description	Lower-tier requirements	Upper-tier requirements
ſ	E1		100	200

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

Non-applicable

Specific provisions in terms of protecting people or the environment:

Version: 1

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



SECTION 15: REGULATORY INFORMATION (continued)

- 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:

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 (Regulation (EC) No 2015/830)

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

Texts of the legislative phrases mentioned in section 2:

H400: Very toxic to aquatic life

H412: Harmful to aquatic life with long lasting effects

H318: Causes serious eye damage

H335: May cause respiratory irritation

H314: Causes severe skin burns and eye damage

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. 4: H302 - Harmful if swallowed Acute Tox. 4: H302+H312 - Harmful if swallowed or in contact with skin 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 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 STOT SE 3: H336 - May cause drowsiness or dizziness **Classification procedure:**

Version: 1

Aquatic Acute 1: Calculation method Aquatic Chronic 3: Calculation method Eye Dam. 1: Calculation method STOT SE 3: Calculation method Skin Corr. 1A: Calculation method

Advice related to training:

Minimal 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:



SECTION 16: OTHER INFORMATION (continued)

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: 5-day biochemical oxygen demand BCF: Bioconcentration factor LD50: Lethal Dose 50 LC50: Lethal Concentration 50 EC50: Effective concentration 50 LOg-POW: Octanol-water partition coefficient Koc: Partition coefficient of organic carbon

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.

Version: 1