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

1.1	Product identifier Trade name Unique Formula Identifier (UFI)	:	thermosept® ED GY00-R0DY-3009-3A7T
1.2	Relevant identified uses of th	e s	ubstance or mixture and uses advised against
	Use of the Sub- stance/Mixture	:	Disinfectants
	Recommended restrictions on use	:	Restricted to professional users.
1.3	Details of the supplier of the	safe	etv data sheet
	Producer	:	Schülke & Mayr GmbH Robert-Koch-Str. 2
			22851 Norderstedt Germany Telephone: +49 (0)40/ 52100-0 Telefax: +49 (0)40/ 52100318 mail@schuelke.com www.schuelke.com
	Supplier	:	Schülke & Mayr UK Ltd. Cygnet House 1, Jenkin Road
			Sheffield S9 1AT United Kingdom Telephone: +44 114 254 35 00 Telefax: +44 114 254 35 01 mail.uk@schulke.com
	E-mail address of person responsible for the SDS/Contact person	:	Application Specialists +49 (0)40/ 521 00 666 AD@schuelke.com
1.4	Emergency telephone numbe	er	
		:	Carechem 24 International:+44 1235 239670

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SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)

Acute toxicity, Category 4 Acute toxicity, Category 4 Skin corrosion, Sub-category 1B Serious eye damage, Category 1 Respiratory sensitisation, Category 1

Skin sensitisation, Category 1 Specific target organ toxicity - single exposure, Category 3, Respiratory system Long-term (chronic) aquatic hazard, Category 3

H302: Harmful if swallowed. H332: Harmful if inhaled.

H314: Causes severe skin burns and eye damage.

H318: Causes serious eye damage.

H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H317: May cause an allergic skin reaction.

H335: May cause respiratory irritation.

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H412: Harmful to aquatic life with long lasting effects.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)

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Hazard pictograms :	
Signal word :	Danger
Hazard statements :	 H302 + H332 Harmful if swallowed or if inhaled. H314 Causes severe skin burns and eye damage. H317 May cause an allergic skin reaction. H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. H335 May cause respiratory irritation. H412 Harmful to aquatic life with long lasting effects.
Supplemental Hazard : Statements	EUH071 Corrosive to the respiratory tract.
Precautionary statements :	 Prevention: P261 Avoid breathing vapours. P271 Use only outdoors or in a well-ventilated area. P280 Wear protective gloves/ eye protection/ face protection. Response: 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
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keep comfortable for breathing.

P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.

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Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

Hazardous components which must be listed on the label: glutaral

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical nature : Solution of the following substances with harmless additives.

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
glutaral	111-30-8 203-856-5 605-022-00-X 01-2119455549-26- XXXX	Acute Tox. 3; H301 Acute Tox. 2; H330 Skin Corr. 1B; H314 Eye Dam. 1; H318 Resp. Sens. 1; H334 Skin Sens. 1A; H317 STOT SE 3; H335 (Respiratory sys- tem) Aquatic Acute 1; H400 Aquatic Chronic 2; H411 M-Factor (Acute aquatic toxicity): 1 Specific concentra- tion limit STOT SE 3; H335 0.5 - < 5 %	>= 20 - < 25
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Hazardous components



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ethanol		64-17-5 200-578-6 603-002-00-5 01-2119457610-43-	Flam. Liq. 2; H225 Eye Irrit. 2; H319	>= 1 - < 10

	200-578-6 603-002-00-5 01-2119457610-43- XXXX	Eye Irrit. 2; H319	
pentasodium (carboxylatome- thyl)iminobis(ethylenenitrilo)tetraacet ate	140-01-2 205-391-3 607-736-00-7 01-2119474445-33- XXXX	Acute Tox. 4; H332 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Repr. 2; H361d STOT RE 2; H373 (Respiratory sys- tem) specific concentra- tion limit Repr. 1B; H360D >= 3 %	>= 0.1 - < 1

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures						
	General advice	:	Take off all contaminated clothing immediately.			
	If inhaled	:	Move the victim to fresh air and keep him calm. No artificial respiration, mouth-to-mouth or mouth to nose. Use suitable instruments/apparatus. If symptoms persist, call a physician.			
	In case of skin contact	:	Wash off immediately with plenty of water for at least 15 minutes. Consult a physician.			
	In case of eye contact	:	In case of eye contact, remove contact lens and rinse imme- diately with plenty of water, also under the eyelids, for at least 15 minutes. Obtain medical attention.			
	If swallowed	:	Do NOT induce vomiting. Rinse mouth with water. Give small amounts of water to drink. Obtain medical attention.			
4.2	Most important symptoms an	nd e	ffects, both acute and delayed			
	Symptoms	:	Treat symptomatically.			
	Risks	:	Harmful if swallowed or if inhaled. May cause an allergic skin reaction. Causes serious eye damage.			

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		May cause allergy or asthma symptoms or breathing difficul-
		ties if inhaled.
		May cause respiratory irritation. Causes severe burns.
		Causes severe burns. Corrosive to the respiratory tract.
.3 Indication of a	iny immediate me	dical attention and special treatment needed
Treatment	:	For specialist advice physicians should contact the Poisons
		Information Service.
SECTION 5: Fire	efighting measu	res
5.1 Extinguishing	media	
	guishing media :	Dry powder
2		Foam
		Water spray jet
		Carbon dioxide (CO2)
Unsuitable ex media	tinguishing :	Do NOT use water jet.
5 2 Special hazar	de arising from th	e substance or mixture
-	ds during fire- :	
fighting	us uuning ine	
Hazardous co ucts	mbustion prod- :	No hazardous combustion products are known
5.3 Advice for fire	fighters	
Special protect for firefighters		In the event of fire, wear self-contained breathing apparatus.
SECTION 6: Acc	cidental release	measures
6.1 Personal prec	autions, protectiv	re equipment and emergency procedures
Personal prec	autions :	Ensure adequate ventilation.
		Use personal protective equipment.
6.2 Environmenta	I precautions	
Environmenta	-	Do not flush into surface water.
Linnonmenta	i precautions .	
6.3 Methods and	material for conta	inment and cleaning up
Methods for c	leaning up :	Wipe up with absorbent material (e.g. cloth, fleece).
		Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
6.4 Reference to	other sections	
see Section 8 + 13		
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SECTION 7: Handling and storage

7.1 Precautions for safe handling

Ad	vice on safe handling	:	Avoid exceeding the given occupational exposure limits (see section 8). Use only with adequate ventilation/personal protection.
	vice on protection against and explosion	:	No special protective measures against fire required.
Hy	giene measures	:	Take off all contaminated clothing immediately. Keep away from food and drink.
7.2 Cor	ditions for safe storage, ir	ncl	uding any incompatibilities
	quirements for storage eas and containers	:	Store at room temperature in the original container.
	rther information on stor- e conditions	:	Keep away from direct sunlight. Keep away from heat. Keep container tightly closed. Recommended storage temperature: 5 - 25°C
Ad	vice on common storage	:	Do not store together with explosives, oxidizing agents, organ- ic peroxides and infectious products.
7 2 Sna	oific and usa(a)		

7.3 Specific end use(s)

Specific use(s) : none

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form	Control parameters	Basis			
		of exposure)					
glutaral	111-30-8	TWA	0.05 ppm	GB EH40			
-			0.2 mg/m3				
	Further inform	Further information: Capable of causing occupational asthma.					
		STEL 0.05 ppm		GB EH40			
			0.2 mg/m3				
	Further inform	Further information: Capable of causing occupational asthma.					
ethanol	64-17-5	TWA	1,000 ppm	GB EH40			
			1,920 mg/m3				

Derived No Effect Level (DNEL):

Substance name	End Use	Exposure routes	Potential health ef- fects	Value
glutaral	Workers	Inhalation	Long-term local ef- fects	0.0106 mg/m3
ethanol	Workers	Inhalation	Acute local effects	1900 mg/m3
	Workers	Skin contact	Long-term systemic effects	343 mg/kg
	Workers	Inhalation	Long-term systemic	950 mg/m3



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pentasodium (carbox- ylatome- thyl)iminobis(ethylene nitrilo)tetraacetate	Workers	Inhalation	effects Acute local effects	3 mg/m3
	Workers	Inhalation	Long-term local ef- fects	1.5 mg/m3

Predicted No Effect Concentration (PNEC):

Substance name	Environmental Compartment	Value
glutaral	Fresh water	0.0025 mg/l
	Marine water	0.00025 mg/l
	Fresh water sediment	0.091 mg/kg
	Marine sediment	0.009 mg/kg
	Soil	0.18 mg/kg
	Effects on waste water treatment plants	0.8 mg/l
	Intermittent use/release	0.006 mg/l
ethanol	Fresh water	0.96 mg/l
	Marine water	0.79 mg/l
	Fresh water sediment	3.6 mg/kg
	Soil	0.63 mg/kg
	Marine sediment	2.9 mg/kg
	Sewage treatment plant	580 mg/l
pentasodium (carboxylatome- thyl)iminobis(ethylenenitrilo)tetra acetate	Fresh water	6.4 mg/l
	Marine water	0.64 mg/l
	Intermittent use/release	3.1 mg/l
	Sewage treatment plant	51 mg/l
	Fresh water sediment	23 mg/kg
	Marine sediment	2.3 mg/kg
	Soil	0.853 mg/kg

8.2 Exposure controls

Personal protective equipment

Eye/face protection Hand protection	:	Face-shield
Directive	:	The selected protective gloves have to satisfy the specifica- tions of Regulation (EU) 2016/425 and the standard EN 374 derived from it.
Remarks	:	Splash protection: disposable nitrile rubber gloves e.g. Dermatril (layer thickness: 0.11 mm) made by KCL or gloves from other manufacturers offering the same protection. Pro- longed contact: Nitrile rubber gloves e.g. Camatril (>480 Min., layer thickness: 0,40 mm) or butyl rubber gloves e.g. Butoject (>480 Min., layer thickness: 0,70 mm) made by KCL or gloves from other manufacturers offering the same protec- tion.
Skin and body protection Respiratory protection	:	Work uniform or laboratory coat. Not required; except in case of aerosol formation. Respirator with combination filter for vapour/particulate (EN 141)

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Protective measures	:	Avoid contact with skin and eyes.
		Do not breathe vapour.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

 Appearance Colour Odour Odour Threshold	:	liquid colourless stinging not determined
рН	:	3.6 (20 °C) Concentration: 100 %
Melting point/freezing point	:	< -5 °C
Decomposition temperature		No data available
Boiling point/boiling range Flash point	:	ca. 90 °C 63 °C Method: DIN 51755 Part 1
Evaporation rate	:	No data available
Upper explosion limit / Upper flammability limit	:	Not applicable
Lower explosion limit / Lower flammability limit	:	Not applicable
Vapour pressure	:	ca. 35 hPa (20 °C)
Relative vapour density	:	No data available
Density	:	ca. 1.04 g/cm3 (20 °C)
Solubility(ies) Water solubility	:	completely soluble (20 °C)
Partition coefficient: n- octanol/water	:	Not applicable
Auto-ignition temperature	:	No data available
Viscosity Viscosity, dynamic	:	ca. 3.2 mPa*s (20 °C) Method: DIN 53019
Viscosity, kinematic	:	not determined
Explosive properties	:	No data available
Oxidizing properties	:	The substance or mixture is not classified as oxidizing.

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9.2 Other information

Flammability (liquids)	: does not ignite
Metal corrosion rate	: Not corrosive to metals
Self-ignition	: not determined

SECTION 10: Stability and reactivity

10.1 Reactivity

No dangerous reaction known under conditions of normal use.

10.2 Chemical stability

The product is chemically stable.

10.3 Possibility of hazardous reactions			
Hazardous reactions	:	None reasonably foreseeable.	
10.4 Conditions to avoid			
Conditions to avoid	:	Protect from frost, heat and sunlight.	
10.5 Incompatible materials			
Materials to avoid	:	Strong bases Strong acids and oxidizing agents Amines	

Ammonia

10.6 Hazardous decomposition products

None reasonably foreseeable.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Harmful if swallowed or if inhaled.

Product:

Acute oral toxicity	:	Acute toxicity estimate: 385 mg/kg Method: Calculation method
Acute inhalation toxicity	:	Acute toxicity estimate: 1.4 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: Calculation method

Components:



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Acute oral	toxicity	:	LD50 (Rat): 77 mg/kg Assessment: Toxic if swallowed.
Acute inha	alation toxicity	:	LC50 (Rat): 0.28 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403
Acute derr	nal toxicity	:	LD50 (Rabbit): > 2,000 mg/kg
ethanol:			
Acute oral	toxicity	:	LD50 (Rat): 10,470 mg/kg Method: OECD Test Guideline 401
Acute inha	alation toxicity	:	LC50 (Rat, male and female): 124.7 mg/l Exposure time: 4 h Test atmosphere: vapour
Acute derr	nal toxicity	:	LD50 (Rabbit): > 2,000 mg/kg Method: OECD Test Guideline 402
pentasod	ium (carboxylatom	eth	yl)iminobis(ethylenenitrilo)tetraacetate:
Acute oral	toxicity	:	LD50 (Rat): ca. 4,550 mg/kg
Acute inha	alation toxicity	:	Acute toxicity estimate: 1 - 5 mg/l Exposure time: 4 h Test atmosphere: dust/mist Assessment: The component/mixture is moderately toxic af short term inhalation.
Acute derr	nal toxicity	:	LD50 (Rat): > 2,000 mg/kg Method: OECD Test Guideline 402 Remarks: The toxicological data has been taken from prod- ucts of similar composition.
	osion/irritation		
Compone			
glutaral:			
Species		:	Rabbit
Method Result		:	OECD Test Guideline 404 Corrosive
ethanol:			
Species		:	Rabbit OECD Test Guideline 404
Method			

pentasodium (carboxylatomethyl)iminobis(ethylenenitrilo)tetraacetate:



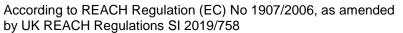
thermosept Version 05.04	B ED No Cha Revision Date: 06.05.2024	Inge Service! Date of last issue: 20.11.2023
Result	:	Skin irritation
-	damage/eye irritati	ion
Causes serio	us eye damage.	
<u>Components</u>	<u>):</u>	
glutaral:		
Species		Rabbit
Method		Draize Test
Result	:	Corrosive
ethanol:		
Method	:	OECD Test Guideline 405
Result	:	Eye irritation
nontocodium	(aarbayylatamath	w/)imin.chic/othulon.chitrile)tetro.co.teto.
Result		nyl)iminobis(ethylenenitrilo)tetraacetate:
Result	•	Eye irritation
Respiratory	or skin sensitisatio	on
Skin sensitis	ation	
May cause ar	n allergic skin reactio	on.
Respiratory	sensitisation	
May cause al	lergy or asthma sym	nptoms or breathing difficulties if inhaled.
Components	<u>::</u>	
glutaral:		
Test Type		Open epicutaneous test
Exposure rou	tes :	Dermal
Species	:	Guinea pig
Result	:	Causes sensitisation.
Exposure rou	tes :	Inhalation
Species	:	Humans
Result	:	Causes sensitisation.
ethanol:		
Test Type	:	Maximisation Test
Species	:	Guinea pig
Method	:	OECD Test Guideline 406
Result	:	Did not cause sensitisation on laboratory animals.
pentasodium	(carboxvlatometh	yl)iminobis(ethylenenitrilo)tetraacetate:
Test Type		Buehler Test
Species	:	Guinea pig
Method	:	OECD Test Guideline 406
Result	:	Does not cause skin sensitisation.



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	nutagenicity		
Not classifie	ed based on availa	able	information.
<u>Componen</u>	<u>ts:</u>		
glutaral:			
Genotoxicit	y in vitro	:	Result: Conflicting results have been seen in different studies
Germ cell m sessment	nutagenicity- As-	:	Did not show mutagenic effects in animal experiments.
ethanol:			
Genotoxicit	y in vitro	:	Test Type: Microbial mutagenesis assay (Ames test) Test system: Salmonella typhimurium Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 471 Result: Not mutagenic in Ames Test
Genotoxicit	y in vivo	:	Result: Non mutagenic
Germ cell n sessment	nutagenicity- As-	:	Tests on bacterial or mammalian cell cultures did not show mutagenic effects.
pentasodiu	ım (carboxylaton	neth	nyl)iminobis(ethylenenitrilo)tetraacetate:
Genotoxicit	y in vitro	:	Test Type: Microbial mutagenesis assay (Ames test) Test system: Salmonella typhimurium Method: OECD Test Guideline 471 Result: negative Remarks: In vitro tests did not show mutagenic effects
Carcinoge Not classifie	nicity ed based on availa	able	information.
<u>Componen</u>	<u>ts:</u>		
glutaral: Carcinogen ment	icity - Assess-	:	Animal testing did not show any carcinogenic effects.
ethanol:			
Carcinogen ment	icity - Assess-	:	Did not show carcinogenic effects in animal experiments.
Reproduct Not classifie	i ve toxicity ed based on availa	able	information.
<u>Componen</u>	<u>ts:</u>		
glutaral:			
	ve toxicity - As-	:	Animal testing did not show any effects on fertility.
ethanol:			
IIII the state and the	oetal develop-		Species: Rat



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		General Toxicity Maternal: NOAEL: 5,200 mg/kg bw/day Developmental Toxicity: NOAEL: 5,200 mg/kg bw/day
Reproductive sessment	toxicity - As- :	Animal experiments showed mutagenic and teratogenic e fects.
pentasodium	n (carboxylatomet	hyl)iminobis(ethylenenitrilo)tetraacetate:
Effects on foe ment	etal develop- :	Species: Rat Application Route: Oral General Toxicity Maternal: NOAEL: 400 mg/kg bw/day Teratogenicity: NOAEL: 100 mg/kg bw/day Method: OECD Test Guideline 414 GLP: yes
Reproductive sessment	toxicity - As- :	May damage the unborn child.
STOT - singl	e exposure	
	spiratory irritation. he respiratory tract	
Product:		
Remarks	:	May cause respiratory irritation.
Components	<u>):</u>	
glutaral: Remarks	:	No data available
ethanol:		
Remarks	:	No data available
-	ated exposure	
	based on available	e information.
<u>Components</u>	<u>s:</u>	
glutaral:		
Exposure rou Target Organ	tes : s :	Inhalation Upper respiratory tract
ethanol:		
Remarks	:	No data available
pentasodium	n (carboxylatomet	hyl)iminobis(ethylenenitrilo)tetraacetate:
Exposure rou		Inhalation
Target Organ Assessment	S :	Respiratory system May cause damage to organs through prolonged or repea
		exposure.





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Repeated dose toxicity

Components:

glutaral:

Remarks

: No adverse effect has been observed in chronic toxicity tests.

ethanol:

Species NOAEL LOAEL Application Route	:	Rat 1,730 mg/kg 3,160 mg/kg Oral 90 d
Exposure time	:	90 d

Aspiration toxicity

Not classified based on available information.

Further information

Product:

Remarks

: No data is available on the product itself.

SECTION 12: Ecological information

12.1 Toxicity

Product:

Toxicity to microorganisms	:	EC50 : 217 mg/l
		Method: OECD 209

Components:

glutaral:

yiulaiai.		
Toxicity to fish	:	LC50 (Lepomis macrochirus (Bluegill sunfish)): 9.4 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 5.75 mg/l Exposure time: 48 h
Toxicity to algae/aquatic plants	:	EC50 (Desmodesmus subspicatus (green algae)): 0.6 mg/l Exposure time: 72 h Test Type: static test Method: OECD Test Guideline 201
		NOEC (Desmodesmus subspicatus (green algae)): 0.025 mg/l Exposure time: 72 h Test Type: static test Method: OECD Test Guideline 201
M-Factor (Acute aquatic tox- icity)	:	1

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Toxicity icity)	to fish (Chronic tox-	:	NOEC: 1.6 mg/l Exposure time: 97 d Species: Oncorhynchus mykiss (rainbow trout)
	to daphnia and other nvertebrates (Chron- y)	:	NOEC: 2.5 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea)
ethanol	:		
Toxicity	to fish	:	LC50 (Leuciscus idus (Golden orfe)): 8,140 mg/l Exposure time: 48 h
	to daphnia and other nvertebrates	:	EC50 (Daphnia magna (Water flea)): > 5,000 mg/l Exposure time: 48 h
Toxicity plants	to algae/aquatic	:	EC50 (Chlorella vulgaris (Fresh water algae)): 275 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
pentaso	dium (carboxylatom	eth	yl)iminobis(ethylenenitrilo)tetraacetate:
Toxicity		:	NOEC (Oncorhynchus mykiss (rainbow trout)): 1,000 mg/l Exposure time: 96 h Test Type: semi-static test Method: OECD Test Guideline 203 Remarks: Based on data from similar materials
	to daphnia and other nvertebrates	:	EC50 (Daphnia (water flea)): 245 mg/l Exposure time: 48 h Test Type: static test Method: OECD Test Guideline 202 Remarks: Based on data from similar materials
Toxicity ⁻ plants	to algae/aquatic	:	NOEC (Scenedesmus quadricauda (Green algae)): 400 mg/ Exposure time: 23 d Test Type: static test Remarks: Based on data from similar materials
Toxicity ⁻ icity)	to fish (Chronic tox-	:	NOEC: 100 mg/l Exposure time: 28 d Species: Fish Remarks: Based on data from similar materials
Toxicity	to daphnia and other	:	NOEC: 67 mg/l Exposure time: 18 d

12.2 Persistence and degradability

Product:

Biodegradability	:	Result: Readily biodegradable. Method: OECD 301D / EEC 84/449 C6	
		Dogo 15/21	





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Components:		
glutaral:		
Biodegradability	:	Result: Readily biodegradable. Biodegradation: 90 - 100 % Exposure time: 28 d Method: OECD Test Guideline 301A
Stability in water	:	pH: 7 Hydrolysis: at 50 °C(> 1 yr) Remarks: Hydrolyses slowly on contact with water.
ethanol:		
Biodegradability	:	Test Type: aerobic Result: Readily biodegradable. Biodegradation: > 70 % Exposure time: 5 d Method: OECD 301D / EEC 84/449 C6
pentasodium (ca	rboxvlatomet	thyl)iminobis(ethylenenitrilo)tetraacetate:
Biodegradability		Result: Not readily biodegradable.
		Remarks: Not readily eliminated from water. Based on data from similar materials
3 Bioaccumulative	potential	Remarks: Not readily eliminated from water.
	potential	Remarks: Not readily eliminated from water.
3 Bioaccumulative	potential	Remarks: Not readily eliminated from water.
3 Bioaccumulative <u>Components:</u>	potential :	Remarks: Not readily eliminated from water. Based on data from similar materials Remarks: Does not bioaccumulate.
3 Bioaccumulative <u>Components:</u> glutaral:	:	Remarks: Not readily eliminated from water. Based on data from similar materials Remarks: Does not bioaccumulate. Due to the distribution coefficient n-octanol/water, accumu tion in organisms is not expected. log Pow: ca0.36 (23 °C) pH: 7
3 Bioaccumulative <u>Components:</u> glutaral: Bioaccumulation Partition coefficien	:	Remarks: Not readily eliminated from water. Based on data from similar materials Remarks: Does not bioaccumulate. Due to the distribution coefficient n-octanol/water, accumu tion in organisms is not expected. log Pow: ca0.36 (23 °C)
3 Bioaccumulative <u>Components:</u> glutaral: Bioaccumulation Partition coefficien	:	Remarks: Not readily eliminated from water. Based on data from similar materials Remarks: Does not bioaccumulate. Due to the distribution coefficient n-octanol/water, accumu tion in organisms is not expected. log Pow: ca0.36 (23 °C) pH: 7
3 Bioaccumulative <u>Components:</u> glutaral: Bioaccumulation Partition coefficien octanol/water	:	Remarks: Not readily eliminated from water. Based on data from similar materials Remarks: Does not bioaccumulate. Due to the distribution coefficient n-octanol/water, accumu tion in organisms is not expected. log Pow: ca0.36 (23 °C) pH: 7
3 Bioaccumulative <u>Components:</u> glutaral: Bioaccumulation Partition coefficien octanol/water ethanol:	: t: n- :	Remarks: Not readily eliminated from water. Based on data from similar materials Remarks: Does not bioaccumulate. Due to the distribution coefficient n-octanol/water, accumution in organisms is not expected. log Pow: ca0.36 (23 °C) pH: 7 Method: Directive 92/69/EEC, A.8 Remarks: Bioaccumulation is unlikely.
3 Bioaccumulative <u>Components:</u> glutaral: Bioaccumulation Partition coefficien octanol/water ethanol: Bioaccumulation Partition coefficien	: t: n- :	Remarks: Not readily eliminated from water. Based on data from similar materials Remarks: Does not bioaccumulate. Due to the distribution coefficient n-octanol/water, accumu tion in organisms is not expected. log Pow: ca0.36 (23 °C) pH: 7 Method: Directive 92/69/EEC, A.8 Remarks: Bioaccumulation is unlikely. log Pow: -0.14
3 Bioaccumulative <u>Components:</u> glutaral: Bioaccumulation Partition coefficien octanol/water ethanol: Bioaccumulation Partition coefficien octanol/water	: t: n- :	Remarks: Not readily eliminated from water. Based on data from similar materials Remarks: Does not bioaccumulate. Due to the distribution coefficient n-octanol/water, accumu tion in organisms is not expected. log Pow: ca0.36 (23 °C) pH: 7 Method: Directive 92/69/EEC, A.8 Remarks: Bioaccumulation is unlikely. log Pow: -0.14
3 Bioaccumulative <u>Components:</u> glutaral: Bioaccumulation Partition coefficien octanol/water ethanol: Bioaccumulation Partition coefficien octanol/water 4 Mobility in soil	: t: n- :	Remarks: Not readily eliminated from water. Based on data from similar materials Remarks: Does not bioaccumulate. Due to the distribution coefficient n-octanol/water, accumu tion in organisms is not expected. log Pow: ca0.36 (23 °C) pH: 7 Method: Directive 92/69/EEC, A.8 Remarks: Bioaccumulation is unlikely. log Pow: -0.14

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ethanol: Mobility 12.5 Results of	PBT and vPvB as	: Remarks: No data available
<u>Product:</u> Assessmer	nt	: This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.
12.6 Other adv	erse effects	
tial	disrupting poten- ecological infor-	 The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher. No data is available on the product itself.

schülke ->

SECTION 13: Disposal considerations

13.1 Waste treatment methods		
Product	:	Disposal together with normal waste is not allowed. Special disposal required according to local regulations.
Contaminated packaging	:	Empty containers should be taken to an approved waste han- dling site for recycling or disposal.

SECTION 14: Transport information

14.1 UN number

ADR	:	UN 1903
IMDG	:	UN 1903
ΙΑΤΑ	:	UN 1903
14.2 UN proper shipping name		
ADR	:	DISINFECTANT, LIQUID, CORROSIVE, N.O.S. (glutaral)
IMDG	:	DISINFECTANT, LIQUID, CORROSIVE, N.O.S. (glutaral)
ΙΑΤΑ	:	Disinfectant, liquid, corrosive, n.o.s. (glutaral)

14.3 Transport hazard class(es)



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	Class	Subsidiary risks
ADR	: 8	
IMDG	: 8	
ΙΑΤΑ	: 8	
14.4 Packing group		
ADR Packing group Classification Code Hazard Identification Number Labels Tunnel restriction code	: III : C9 : 80 : 8 : (E)	
IMDG Packing group Labels EmS Code	: III : 8 : F-A, S-B	
IATA (Cargo) Packing instruction (cargo aircraft) Packing instruction (LQ) Packing group Labels	: 856 : Y841 : III : Corrosive	
IATA (Passenger) Packing instruction (passen- ger aircraft) Packing instruction (LQ) Packing group Labels	: 852 : Y841 : III : Corrosive	
14.5 Environmental hazards		
ADR Environmentally hazardous	: no	
IMDG Marine pollutant	: no	
14.6 Special precautions for use	r	
based upon the properties of	he unpackaged ma ations may vary by	e for informational purposes only, and solely terial as it is described within this Safety Data mode of transportation, package sizes, and var-

iations in regional or country regulations.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable for product as supplied.

SECTION 15: Regulatory information

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

Relevant EU provisions transposed through retained EU law

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UK REA	CH List of restrictions (A	Annex 17)	:	Conditions of restriction for the fol- lowing entries should be considered Number on list 3
	CH Candidate list of sul (SVHC) for Authorisatic	, ,	:	Not applicable
The Pers	sistent Órganic Pollutan	ts Regulations (retained amended for Great Brit-	:	Not applicable
•	on (EC) No 1005/2009 o ozone layer	on substances that de-	:	Not applicable
	CH List of substances s	subject to authorisation	:	Not applicable
Volatile o	organic compounds :	emissions (integrated	poll	4 November 2010 on industrial ution prevention and control) ds (VOC) content: 4.66 %

Other regulations:

Take note of The Management of Health and Safety at Work Regulations 1999 (requirements relating to new and expectant mothers at work contained in Regulation 16 to 18) and of the Pregnant Workers Directive 92/85/EEC.

Take note of The Management of Health and Safety at Work Regulations 1999 (requirements relating to protection of young people at work contained in Regulation 19) and of Directive 94/33/EC on the protection of young people at work.

The components of this product are reported in the following inventories:				
TCSI	:	On the inventory, or in compliance with the inventory		
TSCA	:	All substances listed as active on the TSCA inventory		
AIIC	:	All components are listed on the inventory, regulatory obliga- tions/restrictions apply		
DSL	:	All components of this product are on the Canadian DSL		
ENCS	:	On the inventory, or in compliance with the inventory		
ISHL	:	On the inventory, or in compliance with the inventory		
KECI	:	On the inventory, or in compliance with the inventory		
PICCS	:	On the inventory, or in compliance with the inventory		
IECSC	:	On the inventory, or in compliance with the inventory		
NZIoC	:	Not in compliance with the inventory		
TECI	:	Not in compliance with the inventory		

15.2 Chemical safety assessment

No Chemical Safety Assessment has been carried out for this mixture.

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SECTION 16: Other information

Full text of H-Statements	
H225	Highly flammable liquid and vapour.
H301 :	Toxic if swallowed.
H314 :	Causes severe skin burns and eye damage.
H315 :	Causes skin irritation.
H317 :	May cause an allergic skin reaction.
H318 :	Causes serious eye damage.
H319 :	Causes serious eye irritation.
H330 :	Fatal if inhaled.
H332 :	Harmful if inhaled.
H334 :	May cause allergy or asthma symptoms or breathing difficul- ties if inhaled.
H335 :	May cause respiratory irritation.
H361d :	Suspected of damaging the unborn child.
H373 :	May cause damage to organs through prolonged or repeated
	exposure if inhaled.
H400 :	Very toxic to aquatic life.
H411 :	Toxic to aquatic life with long lasting effects.
Full text of other abbreviation	S
Full text of other abbreviation Acute Tox.	s Acute toxicity
Acute Tox.	Acute toxicity
Acute Tox. Aquatic Acute	Acute toxicity Short-term (acute) aquatic hazard
Acute Tox. Aquatic Acute Aquatic Chronic	Acute toxicity Short-term (acute) aquatic hazard Long-term (chronic) aquatic hazard
Acute Tox. Aquatic Acute Aquatic Chronic Eye Dam.	Acute toxicity Short-term (acute) aquatic hazard Long-term (chronic) aquatic hazard Serious eye damage
Acute Tox. Aquatic Acute Aquatic Chronic Eye Dam. Eye Irrit.	Acute toxicity Short-term (acute) aquatic hazard Long-term (chronic) aquatic hazard Serious eye damage Eye irritation
Acute Tox. Aquatic Acute Aquatic Chronic Eye Dam. Eye Irrit. Flam. Liq.	Acute toxicity Short-term (acute) aquatic hazard Long-term (chronic) aquatic hazard Serious eye damage Eye irritation Flammable liquids
Acute Tox. Aquatic Acute Aquatic Chronic Eye Dam. Eye Irrit. Flam. Liq. Repr.	Acute toxicity Short-term (acute) aquatic hazard Long-term (chronic) aquatic hazard Serious eye damage Eye irritation Flammable liquids Reproductive toxicity
Acute Tox. Aquatic Acute Aquatic Chronic Eye Dam. Eye Irrit. Flam. Liq. Repr. Resp. Sens.	Acute toxicity Short-term (acute) aquatic hazard Long-term (chronic) aquatic hazard Serious eye damage Eye irritation Flammable liquids Reproductive toxicity Respiratory sensitisation
Acute Tox. Aquatic Acute Aquatic Chronic Eye Dam. Eye Irrit. Flam. Liq. Repr. Resp. Sens. Skin Corr. Skin Irrit. Skin Sens.	Acute toxicity Short-term (acute) aquatic hazard Long-term (chronic) aquatic hazard Serious eye damage Eye irritation Flammable liquids Reproductive toxicity Respiratory sensitisation Skin corrosion Skin irritation Skin sensitisation
Acute Tox. Aquatic Acute Aquatic Chronic Eye Dam. Eye Irrit. Flam. Liq. Repr. Resp. Sens. Skin Corr. Skin Irrit. Skin Sens. STOT RE	Acute toxicity Short-term (acute) aquatic hazard Long-term (chronic) aquatic hazard Serious eye damage Eye irritation Flammable liquids Reproductive toxicity Respiratory sensitisation Skin corrosion Skin irritation Skin sensitisation Specific target organ toxicity - repeated exposure
Acute Tox. Aquatic Acute Aquatic Chronic Eye Dam. Eye Irrit. Flam. Liq. Repr. Resp. Sens. Skin Corr. Skin Irrit. Skin Sens.	Acute toxicity Short-term (acute) aquatic hazard Long-term (chronic) aquatic hazard Serious eye damage Eye irritation Flammable liquids Reproductive toxicity Respiratory sensitisation Skin corrosion Skin irritation Skin sensitisation Specific target organ toxicity - repeated exposure Specific target organ toxicity - single exposure
Acute Tox. Aquatic Acute Aquatic Chronic Eye Dam. Eye Irrit. Flam. Liq. Repr. Resp. Sens. Skin Corr. Skin Irrit. Skin Sens. STOT RE	Acute toxicity Short-term (acute) aquatic hazard Long-term (chronic) aquatic hazard Serious eye damage Eye irritation Flammable liquids Reproductive toxicity Respiratory sensitisation Skin corrosion Skin irritation Skin sensitisation Specific target organ toxicity - repeated exposure

GB EH40 / TWA : Long-term exposure limit (8-hour TWA reference period)

GB EH40 / STEL : Short-term exposure limit (15-minute reference period)

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL

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- Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; TECI -Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Further information

Classification of the mixture:

Classification of the mixt	ure:	Classification procedure:
Acute Tox. 4	H302	Calculation method
Acute Tox. 4	H332	Calculation method
Skin Corr. 1B	H314	Calculation method
Eye Dam. 1	H318	Calculation method
Resp. Sens. 1	H334	Calculation method
Skin Sens. 1	H317	Calculation method
STOT SE 3	H335	Calculation method
Aquatic Chronic 3	H412	Calculation method

Changes since the last version are highlighted in the margin. This version replaces all previous versions.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.