

Chlorhexidine (0.8%) Liquid Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 06.04.2024
4.0	06.09.2024	10863924-00009	Date of first issue: 11.10.2022

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

1.1 Product identifier

Trade name:Chlorhexidine (0.8%) Liquid Formulation

Other means of identification : Coopers Hibitane Disinfectant (36230)

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

Use of the Sub- stance/Mixture	: Veterinary product
Recommended restrictions on use	: Not applicable

1.3 Details of the supplier of the safety data sheet

Company	:	MSD Kilsheelan Clonmel Tipperary, IE
Telephone	:	353-51-601000
E-mail address of person responsible for the SDS	:	EHSDATASTEWARD@msd.com

1.4 Emergency telephone number

+1-908-423-6000

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Serious eye damage, Category 1 Skin sensitisation, Category 1 Long-term (chronic) aquatic hazard, Category 1 H318: Causes serious eye damage. H317: May cause an allergic skin reaction. H410: Very toxic to aquatic life with long lasting effects.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms

: Danger

Signal word

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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Hazard statements		H318 Causes	use an allergic skin reaction. serious eye damage. kic to aquatic life with long lasting effects.
Precautionary statements			elease to the environment. rotective gloves/ eye protection/ face protection.
		with water for se sent and easy to POISON CENT P333 + P313 advice/ attention	If skin irritation or rash occurs: Get medical n. Take off contaminated clothing and wash it

Hazardous components which must be listed on the label: Nonylphenol, ethoxylated Pine oil

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.

Ecological information: This substance/mixture contains components considered to have endocrine disrupting properties for environment, according to REACH Article 57(f), Commission Regulation (EU) 2018/605 or Commission Delegated Regulation (EU) 2017/2100.

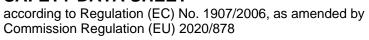
Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
Nonylphenol, ethoxylated	9016-45-9	Acute Tox. 4; H302 Eye Dam. 1; H318 Aquatic Acute 1; H400 Aquatic Chronic 1;	>= 3 - < 10





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Pine	oil	8002-09-3	H410 M-Factor (Acute aquatic toxicity): 1 M-Factor (Chronic aquatic toxicity): 10 Flam. Lig. 3; H226 >= 1 - < 2,5
Fine	UII	8002-09-3	Skin Irrit. 2; H315 Skin Sens. 1; H317 Asp. Tox. 1; H304 Aquatic Chronic 2; H411
Chlor	hexidine	55-56-1 200-238-7	Acute Tox. 4; H302 Eye Irrit. 2; H319 STOT RE 2; H373 (Liver) Aquatic Acute 1; H400 Aquatic Chronic 1; H410>= 0,25 - < 1

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice	:	In the case of accident or if you feel unwell, seek medical ad- vice immediately. When symptoms persist or in all cases of doubt seek medical advice.
Protection of first-aiders	:	First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment when the potential for exposure exists (see section 8).
If inhaled	:	If inhaled, remove to fresh air. Get medical attention if symptoms occur.
In case of skin contact	:	In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.
In case of eye contact	:	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes.



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				nove contact lens, if worn. ntion immediately.		
lf sw	If swallowed		If swallowed, DO NOT induce vomiting. Get medical attention if symptoms occur. Rinse mouth thoroughly with water.			
4.2 Most	important symptoms a	nd e	effects, both acut	e and delayed		
Risk	S	:	May cause an all Causes serious e	ergic skin reaction. eye damage.		
4.3 Indica	ation of any immediate	meo	dical attention and	d special treatment needed		
Trea	tment	:	Treat symptomat	ically and supportively.		
SECTIO	N 5: Firefighting meas	sur	es			
5.1 Extin	guishing media					
Suita	able extinguishing media	:	Water spray Alcohol-resistant Carbon dioxide (Dry chemical			
Unsı med	uitable extinguishing ia	:	: None known.			
5.2 Speci	ial hazards arising from	the	e substance or mi	xture		
Spec fighti	cific hazards during fire- ing	:	Exposure to com	bustion products may be a hazard to health.		
Haza ucts	ardous combustion prod-	:	Carbon oxides			
5.3 Advid	ce for firefighters					
	cial protective equipment refighters	:		e, wear self-contained breathing apparatus. tective equipment.		
Spec ods	cific extinguishing meth-	: Use extinguishing measures that are appropriate to local cumstances and the surrounding environment. Use water spray to cool unopened containers. Remove undamaged containers from fire area if it is safe so. Evacuate area.		the surrounding environment. to cool unopened containers.		

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions	:	Use personal protective equipment.	
		Follow safe handling advice (see section 7) and personal pro-	

SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006, as amended by



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		tective equipme	ent recommendations (see section 8).
6.2 Enviro	nmental precautions		
	nmental precautions	Prevent further Prevent spread barriers). Retain and disp	o the environment. leakage or spillage if safe to do so. ling over a wide area (e.g. by containment or oil pose of contaminated wash water. es should be advised if significant spillages ained.
6.3 Method	is and material for co	ontainment and clea	ning up
Methods for cleaning up :		For large spills ment to keep m be pumped, sto Clean up rema bent. Local or nation posal of this ma employed in the mine which reg Sections 13 an	ert absorbent material. provide dyking or other appropriate contain- naterial from spreading. If dyked material can pre recovered material in appropriate container. ining materials from spill with suitable absor- al regulations may apply to releases and dis- aterial, as well as those materials and items e cleanup of releases. You will need to deter- julations are applicable. d 15 of this SDS provide information regarding national requirements.

6.4 Reference to other sections

See sections: 7, 8, 11, 12 and 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Technical measures :		See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.
Local/Total ventilation	:	Use only with adequate ventilation.
Advice on safe handling	:	Do not get on skin or clothing.
		Avoid breathing mist or vapours.
		Do not swallow.
		Do not get in eyes.
		Handle in accordance with good industrial hygiene and safety
		practice, based on the results of the workplace exposure as- sessment
		Keep container tightly closed.
		Take care to prevent spills, waste and minimize release to the environment.
Hygiene measures		If exposure to chemical is likely during typical use, provide eye flushing systems and safety showers close to the working place. When using do not eat, drink or smoke. Contaminated work clothing should not be allowed out of the workplace.
		Wash contaminated clothing before re-use.
		The effective operation of a facility should include review of



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			appropriate dego	ols, proper personal protective equipment, wning and decontamination procedures, monitoring, medical surveillance and the tive controls.
7.2 Conditions for safe storage, including any incompatibilities				
Requirements for storage areas and containers		:		labelled containers. Keep tightly closed. nee with the particular national regulations.
Advice on common storage		:	Do not store with the following product types: Strong oxidizing agents Gases	
7.3 Specific end use(s) Specific use(s)		:	No data available	

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Γ	Components	CAS-No.	Value type (Form	Control parameters	Basis	
			of exposure)			
Π	Chlorhexidine	55-56-1	TWA	40 μg/m3 (OEB 3)	Internal	
		Further information: RSEN, DSEN				
		Wipe limit 100 µg/100 cm2 Interna				

8.2 Exposure controls

Engineering measures

Use appropriate engineering controls and manufacturing technologies to control airborne concentrations (e.g., drip-less quick connections).

All engineering controls should be implemented by facility design and operated in accordance with GMP principles to protect products, workers, and the environment.

Containment technologies suitable for controlling compounds are required to control at source and to prevent migration of the compound to uncontrolled areas (e.g., open-face containment devices).

Minimize open handling.

Personal protective equipment

Eye/face protection Hand protection	: Wear safety glasses with side shields or goggles. If the work environment or activity involves dusty conditions, mists or aerosols, wear the appropriate goggles. Wear a faceshield or other full face protection if there is a potential for direct contact to the face with dusts, mists, or aerosols.	
NA () ()		

Material

: Chemical-resistant gloves



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Skin a	emarks and body protection	Additional boo being perform suits) to avoic Use appropria contaminated	or laboratory coat. dy garments should be used based upon the task led (e.g., sleevelets, apron, gauntlets, disposable l exposed skin surfaces. ate degowning techniques to remove potentially clothing.
Resp	iratory protection	: No personal r quired.	espiratory protective equipment normally re-

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	:	liquid
Colour	:	clear, Hazy, yellow
Odour	:	pine
Odour Threshold	:	No data available
Melting point/freezing point	:	No data available
Initial boiling point and boiling range	:	No data available
Flammability (solid, gas)	:	Not applicable
Flammability (liquids)	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Flash point	:	No data available
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
рН	:	No data available
Viscosity Viscosity, kinematic	:	No data available
Solubility(ies) Water solubility	:	No data available

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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	Partitio octano	n coefficient: n- I/water	:	Not applicable	
	Vapour	pressure	:	No data available	e
	Relativ	e density	:	No data available	e
	Density	/	:	No data available	e
	Relativ	e vapour density	:	No data available	e
		e characteristics ticle size	:	No data available	e
9.2	Other ir	nformation			
	Explos	ives	:	Not explosive	
	Oxidizi	ng properties	:	The substance o	r mixture is not classified as oxidizing.
	Evapor	ation rate	:	No data available	e
	Molecu	ılar weight	:	No data available	e

SECTION 10: Stability and reactivity

10.1 Reactivity						
Not classified as a reactivity hazard.						
10.2 Chemical stability						
Stable under normal conditions.						
10.3 Possibility of hazardous reactio	ns					
Hazardous reactions :	Can react with strong oxidizing agents.					
10.4 Conditions to avoid						
Conditions to avoid :	None known.					
10.5 Incompatible materials						
Materials to avoid :	Oxidizing agents					
10.6 Hazardous decomposition prod	ucts					
No hazardous decomposition prod						

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008 Information on likely routes of : Inhalation



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ty thoxylated:			mate: > 2.000 mg/kg
ty thoxylated:		Acute toxicity esti	
thoxylated:	:		
thoxylated:	:		
-			on method
-			
ty			
	:	LD50 (Rat): 500 -	2.000 mg/kg
ty	:	LD50 (Rat): > 2.00 Remarks: Based of	00 mg/kg on data from similar materials
ty	:	LD50 Oral (Mouse	e): 1.260 mg/kg
		LD50 Oral (Rabbi	t): 1.100 mg/kg
		LD50 Oral (Rat): 2	2.000 mg/kg
ther routes of	:	LD50 (Rat): 21 mg Application Route	
<i>irritation</i>			
ised on availal	ble	information.	
thoxylated:		Dabbit	
	÷	Rabbit OECD Test Guide	eline 404
	:	No skin irritation	
	:	Rabbit	
	:		om similar materials
	•		און אווומן ווומנכוומוס
	mage/eye irrit	nage/eve irritati	: No skin irritation

Causes serious eye damage.



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onents: phenol, ethoxylated: s il: s ks exidine: s atory or skin sensitis		No eye irritation Rabbit	s on the eye
s l l s l ks exidine: s		OECD Test Guide Irreversible effect: Bovine cornea OECD Test Guide Based on data fro No eye irritation Rabbit	s on the eye eline 437
l s ks exidine: s		OECD Test Guide Irreversible effect: Bovine cornea OECD Test Guide Based on data fro No eye irritation Rabbit	s on the eye eline 437
il: s i ks exidine: s		Irreversible effects Bovine cornea OECD Test Guide Based on data fro No eye irritation Rabbit	s on the eye eline 437
s ks exidine: s	:	Bovine cornea OECD Test Guide Based on data fro No eye irritation Rabbit	eline 437
s ks exidine: s	: :	OECD Test Guide Based on data fro No eye irritation Rabbit	
l ks exidine: s	:	OECD Test Guide Based on data fro No eye irritation Rabbit	
ks exidine: S	:	Based on data fro No eye irritation Rabbit	
exidine: S	:	No eye irritation Rabbit	
S	:	Rabbit	
S	:		
	:		
atory or skin sensiti	:		
atory or skin sensiti		Mild eye irritation	
-	satio	n	
ensitisation			
use an allergic skin re	eactio	on.	
atory sensitisation			
ssified based on avail	able	information.	
onents:			
henol, ethoxylated:			
rpe	:	Maximisation Tes	t
ire routes	:	Skin contact	
S	:		
ĸs	:		om similar materials
_			
		Drobobility or ovic	tonon of akin consitination in humana
KS	÷		dence of skin sensitisation in humans
cell mutagenicity ssified based on avail onents: ohenol, ethoxylated: oxicity in vitro	able :	Test Type: Bacter Result: negative	rial reverse mutation assay (AMES) on data from similar materials
	atory sensitisation ssified based on avail onents: ohenol, ethoxylated: ope ire routes s (s i: ment (s cell mutagenicity ssified based on avail onents: ohenol, ethoxylated:	atory sensitisation ssified based on available onents: whenol, ethoxylated: pe : re routes : s : (s : l: ment : (s : cell mutagenicity ssified based on available onents: whenol, ethoxylated:	atory sensitisation ssified based on available information. onents: whenol, ethoxylated: type : Maximisation Test pe : Maximisation Test re routes : Skin contact s : Guinea pig : negative s : Based on data from the s : Probability or evice s : Based on data from the s : Probability or evice still mutagenicity ssified based on available information. onents: whenol, ethoxylated: xicity in vitro : Test Type: Bacter Result: negative

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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/ersion I.0	Revision Date: 06.09.2024	SDS Number: 10863924-00009	Date of last issue: 06.04.2024 Date of first issue: 11.10.2022
Geno	otoxicity in vitro	Method: OECD Result: negative	terial reverse mutation assay (AMES) Test Guideline 471 e d on data from similar materials
		thesis in mamm Method: OPPT Result: negative	
Geno	otoxicity in vivo	cytogenetic ass Species: Mouse Application Rou Method: OPPT Result: negative	e ite: Intraperitoneal injection S 870.5395
Chlo	rhexidine:		
	otoxicity in vitro	: Test Type: Bac Result: negative	terial reverse mutation assay (AMES) e
			omosomal aberration hinese hamster ovary cells e
Geno	otoxicity in vivo	: Test Type: dom Species: Mouse Result: negative	
		Test Type: Cyto Species: Hams Result: negative	ter
	inogenicity lassified based on ava	allable information	
	ponents:		
	-		
Spec	rhexidine:	: Rat	
Appli	cation Route	: oral (drinking w	ater)
Expo	sure time	: 2 Years	
Frequ NOA	uency of Treatment	: daily : 38 mg/kg body	weight
Resu		: negative	weight .
Spec	ies	: Rat	
	cation Route	: oral (drinking w	ater)
	sure time	: 2 Years	

: daily

Frequency of Treatment

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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NOAE Result	-	158 mg/kg body weightnegative				
Not cla	oductive toxicity assified based on avail ponents:	e information.				
Pine of Effects ment	bil: s on foetal develop-	Test Type: Embryo-foetal development Species: Rat Application Route: Ingestion Method: OECD Test Guideline 414 Result: negative Remarks: Based on data from similar mat	erials			
Effects	hexidine: s on fertility s on foetal develop-	Species: Rat Fertility: NOAEL: 100 mg/kg body weight Species: Rat Developmental Toxicity: NOAEL: 300 mg/ Species: Rabbit Developmental Toxicity: NOAEL: 40 mg/k				
STOT	- single exposure					

Not classified based on available information.

STOT - repeated exposure

Not classified based on available information.

Components:

Chlorhexidine:

Target Organs Assessment	•	Liver May cause damage to organs through prolonged or repeated exposure.
-----------------------------	---	--

Repeated dose toxicity

Components:

Pine oil:

Species	: Rat	
NOAEL	: > 200 mg/kg	
Application Route	: Skin contact	
Exposure time	: 90 Days	
Species NOAEL Application Route Exposure time Remarks	: Based on data from si	milar materials

Chlorhexidine:

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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Species NOAEL Application Route Exposure time		: Rat : 158 mg/kg : Oral : 2 yr	
Species LOAEL Application Route Exposure time Target Organs		: Rabbit : 250 mg/kg : Dermal : 13 Weeks : Skin, Liver	

Aspiration toxicity

Not classified based on available information.

Components:

Pine oil:

The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it causes a human aspiration toxicity hazard.

11.2 Information on other hazards

Endocrine disrupting properties

Product:

Assessment

: 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.

Experience with human exposure

Components:

Chlorhexidine:

	Symptoms: Headache Target Organs: Lungs Symptoms: Asthmatic appearance, bronchospasm, discomfort in the chest, upper respiratory tract infection
Ingestion :	Target Organs: Gastrointestinal tract Symptoms: Gastrointestinal disturbance, Gastrointestinal tract damage

SECTION 12: Ecological information

12.1 Toxicity

Components:

Nonylphenol, ethoxylated:

Toxicity to fish

LC50 (Pimephales promelas (fathead minnow)): > 0,1 - 1 mg/l

:

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			Exposure time: 96 Remarks: Based of	bh on data from similar materials	
	Toxicity to daphnia and other aquatic invertebrates		 EC50 (Ceriodaphnia dubia (water flea)): > 0,1 - 1 mg/l Exposure time: 48 h Remarks: Based on data from similar materials 		
	Toxicity to algae/aquatic plants		mg/l Exposure time: 72 Method: OECD To	um capricornutum (green algae)): > 1 - 10 2 h est Guideline 201 on data from similar materials	
			Exposure time: 72 Method: OECD Te		
M-Fac icity)	ctor (Acute aquatic tox-	:	1		
Toxici icity)	ty to fish (Chronic tox-	:	Exposure time: 10 Species: Oryzias		
	ty to daphnia and other ic invertebrates (Chron- city)		 NOEC: > 0,001 - 0,01 mg/l Exposure time: 28 d Species: Mysidopsis bahia (opossum shrimp) Remarks: Based on data from similar materials 		
M-Fac toxicit	ctor (Chronic aquatic y)	:	10		
Pine o	oil:				
Toxici	ty to fish	:	Exposure time: 96	s promelas (fathead minnow)): > 1 - 10 mg/l 5 h on data from similar materials	
	ty to daphnia and other c invertebrates	:	Exposure time: 48	agna (Water flea)): > 1 - 10 mg/l 3 h on data from similar materials	
Chlor	hexidine:				
	ty to fish	:	(Fish): 2,088 mg/ Exposure time: 96 Method: ECOSAF ships)		
	ty to daphnia and other ic invertebrates	:	Exposure time: 48	agna (Water flea)): 0,222 mg/l 3 h R (Ecological Structure Activity Relation-	

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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Toxic plants	ity to algae/aquatic s	:	mg/l End point: Growth Exposure time: 96			
M-Fa icity)	ctor (Acute aquatic tox-	:	1			
M-Fa toxici	ctor (Chronic aquatic ty)	:	1			
12.2 Pers	istence and degradabil	ity				
Com	ponents:					
	r Iphenol, ethoxylated: egradability	:	Result: Not readil Remarks: Based	y biodegradable. on data from similar materials		
Pine Biode	oil: egradability	:	Result: Readily bi Remarks: Based	odegradable. on data from similar materials		
	r hexidine: egradability	:	Remarks: Not inh	erently biodegradable.		
12.3 Bioa	ccumulative potential					
Com	ponents:					
Partit	rlphenol, ethoxylated: ion coefficient: n- ol/water	:	log Pow: 4,48			
	oil: ion coefficient: n- ol/water	:	log Pow: > 4 Remarks: Calcula	ition		
Partit	r hexidine: ion coefficient: n- iol/water	:	log Pow: 4,85			
	i lity in soil ata available					
12.5 Resu	12.5 Results of PBT and vPvB assessment					
<u>Prod</u> Asse:	<u>uct:</u> ssment	:	This substance/m	ixture contains no components considered		



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			to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.			
12.6 Endo	ocrine disrupting pro	perties				
Prod	uct:					
Assessment		have endocrine ing to REACH A	This substance/mixture contains components considered to have endocrine disrupting properties for environment, accord- ing to REACH Article 57(f), Commission Regulation (EU) 2018/605 or Commission Delegated Regulation (EU) 2017/2100.			
Com	ponents:					
Nony	/Iphenol, ethoxylated	:				
Asse	ssment		s considered to have endocrine disrupting rding to REACH Article 57(f) for the environ-			
12.7 Othe	er adverse effects					

No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods	
Product :	Dispose of in accordance with local regulations. According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities. Do not dispose of waste into sewer.
Contaminated packaging :	Empty containers should be taken to an approved waste han- dling site for recycling or disposal. If not otherwise specified: Dispose of as unused product.

SECTION 14: Transport information

14.1 UN number or ID number

ADN	: (JN 3082
ADR	: (JN 3082
RID	: (JN 3082
IMDG	: (JN 3082
ΙΑΤΑ	: (JN 3082

14.2 UN proper shipping name



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ADN		:	N.O.S.	ALLY HAZARDOUS SUBSTANCE, LIQUID,			
ADR		:	N.O.S.	ALLY HAZARDOUS SUBSTANCE, LIQUID,			
RID		:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUIE N.O.S. (Chlorhexidine, Nonylphenol, ethoxylated)				
IMDG	IMDG		ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUI N.O.S. (Chlorhexidine, Nonylphenol, ethoxylated)				
ΙΑΤΑ		:	Environmentally	hazardous substance, liquid, n.o.s. Nonylphenol, ethoxylated)			
14.3 Trans	sport hazard class(es)						
			Class	Subsidiary risks			
ADN		:	9	·			
ADR		:	9				
RID		:	9				
IMDG	IMDG		9				
ΙΑΤΑ		:	9				
14.4 Pack	ing group						
Class	ing group ification Code rd Identification Number Is	:	III M6 90 9				
Class Haza Label	ing group sification Code rd Identification Number Is el restriction code	:	III M6 90 9 (-)				
Class	ing group sification Code rd Identification Number Is	:	III M6 90 9				
Label EmS	ing group	:	III 9 F-A, S-F				



Commission Regulation (EU) 2020/878

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Packing instruction (cargo aircraft) Packing instruction (LQ) Packing group Labels		: Y : II	964 (964 II Aiscellaneous			
IATA (Passenger) Packing instruction (passen- ger aircraft) Packing instruction (LQ) Packing group Labels		: Y : II	964 /964 II ⁄liscellaneous			
14.5 Er	14.5 Environmental hazards					
AI Er	DN wironmentally hazardous	: у	res			
AI Er	DR vironmentally hazardous	: у	ves l			
RI Er	D wironmentally hazardous	: у	/es			
	DG arine pollutant	: у	/es			
	TA (Passenger) vironmentally hazardous	: у	res			
	TA (Cargo) vironmentally hazardous	: у	res			
•	14.6 Special precautions for user					

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

14.7 Maritime transport in bulk according to IMO instruments

Remarks

: Not applicable for product as supplied.

SECTION 15: Regulatory information

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

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII)	: Conditions of restriction for the fol- lowing entries should be considered: Number on list 3
REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII)	Number on list 46a.: Nonylphenol, ethoxylated
	Number on list 46b: Nonylphenol, ethoxylated

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



in the regulation, irrespective of their use/purpose or the conditions of the

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	narket and use of certa res and articles (Anne	in dangerous substanc x XVII)	es,
	,	,	Substance(s) or mixture(s) are listed here according to their appearance

		restriction. Please refer to the condi- tions in corresponding Regulation to determine whether an entry is appli- cable to the placing on the market or not.
REACH - Candidate List of Substances of Very High	:	Nonylphenol, ethoxylated
Concern for Authorisation (Article 59).		
REACH - List of substances subject to authorisation (Annex XIV)	:	Nonylphenol, ethoxylated
Regulation (EC) on substances that deplete the ozone	:	Not applicable
layer	•	
Regulation (EU) 2019/1021 on persistent organic pollu-	:	Not applicable
tants (recast)	•	
Regulation (EU) No 649/2012 of the European Parlia-	:	Nonylphenol, ethoxylated
ment and the Council concerning the export and import	•	
of dangerous chemicals		
Seveso III: Directive 2012/18/EU of the European Parlian	nent	t and of the Council on the control of

major-accident hazards involving dangerous substances.

	ig dangerede edeetaneee.	Quantity 1	Quantity 2
E1	ENVIRONMENTAL HAZARDS	100 t	200 t

Other regulations:

Note the regulation on organization, leadership and participation, chapter 12 on the work of children and young people.

The components of this product are reported in the following inventories:

AICS	:	not determined
DSL	:	not determined
IECSC	:	not determined

15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

H302

Other information	:	Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.
Full text of H-Statements		
H226	:	Flammable liquid and vapour.

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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H304 H315 H317 H318 H319 H373 H400 H410 H411			Causes skin irritat May cause an alle Causes serious en Causes serious en May cause damage exposure. Very toxic to aqua Very toxic to aqua	ergic skin reaction. ye damage. ye irritation. ge to organs through prolonged or repeated
Full te	xt of other abbreviati	ons		
	c Acute c Chronic ox. am. it. it. iq. rit. ens.		Skin irritation Skin sensitisation	c) aquatic hazard age

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 - 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



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- United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Further information

Sources of key data used to compile the Safety Data Sheet	eChem Portal search re	Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agency, http://echa.europa.eu/	
Classification of the mixture	Classification procedure:		
Eye Dam. 1	H318	Calculation method	
Skin Sens. 1	H317	Calculation method	
Aquatic Chronic 1	H410	Calculation method	

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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 is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

NO / EN