



Version	Revision Date:	SDS Number:	Date of last issue: 27.11.2023
3.0	06.09.2024	10863782-00008	Date of first issue: 11.10.2022

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name Other means of identification	:	Chlorhexidine (0.8%) Liquid Formulation Coopers Hibitane Disinfectant (36230)
Manufacturer or supplier's o	deta	nils
Company name of supplier	:	MSD
Address	:	126 E. Lincoln Avenue
		Rahway, New Jersey U.S.A. 07065
Telephone	:	908-740-4000
Emergency telephone	:	1-908-423-6000
E-mail address	:	EHSDATASTEWARD@msd.com

Recomme	ended use of the chei	mical and rest	rictions on use
_			

Recommended use	:	Veterinary product
Restrictions on use	:	Not applicable

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification Skin corrosion/irritation	:	Category 3
Serious eye damage/eye irritation	:	Category 1
Skin sensitization	:	Category 1
GHS label elements Hazard pictograms	:	
Signal Word	:	Danger
Hazard Statements	:	H316 Causes mild skin irritation. H317 May cause an allergic skin reaction. H318 Causes serious eye damage.
Precautionary Statements	:	Prevention: P261 Avoid breathing mist or vapors. P272 Contaminated work clothing should not be allowed out of the workplace. P280 Wear protective gloves/ eye protection/ face protection.
		Response: P302 + P352 IF ON SKIN: Wash with plenty of water. 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 or doctor/ physician.



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		attention.		rash occurs: Get medical advice/ ated clothing and wash it before			
		Disposal: P501 Dispose o posal plant.	P501 Dispose of contents/ container to an approved waste dis-				
Othe	r hazards						
	known.						
ECTION	3. COMPOSITION/IN	FORMATION ON ING	REDIENTS				
Subs	tance / Mixture	: Mixture					
Com	ponents						
Chem	nical name		CAS-No.	Concentration (% w/w)			
	Iphenol, ethoxylated		9016-45-9	>= 3 -< 5			
Pine			3002-09-3	>= 1 -< 5			
Chlor	hexidine	:	55-56-1	>= 0.1 -< 1			
ECTION	4. FIRST AID MEASU	JRES					
Cana	eral advice	. In the seese of a	addant or if you	feel unwell, eack medical			
Gene		advice immedia		feel unwell, seek medical			
				I cases of doubt seek medical			
lf inha	aled	: If inhaled, remo	ve to fresh air. ention if symptor				
		Germeuicarall					
In cas	se of skin contact	· In case of cont	act immediately	flush skin with plenty of water.			

General advice	·	advice immediately.
		When symptoms persist or in all cases of doubt seek medical advice.
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.
In case of eve contact		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.
		If easy to do, remove contact lens, if worn.
		Get medical attention immediately.
If swallowed	•	If swallowed, DO NOT induce vomiting.
		Get medical attention if symptoms occur.
		Rinse mouth thoroughly with water.
Most important symptoms	:	Causes mild skin irritation.
and effects, both acute and		May cause an allergic skin reaction.
delayed		Causes serious eye damage.
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).
Notes to physician	:	Treat symptomatically and supportively.
	•	

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media :

Water spray Alcohol-resistant foam



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			Carbon dioxide (C Dry chemical	:02)
Unsui media	table extinguishing	:	None known.	
Speci fightir	fic hazards during fire Ig	:	Exposure to comb	pustion products may be a hazard to health.
Haza ucts	Hazardous combustion prod- ucts		Carbon oxides	
Speci ods	Specific extinguishing meth- ods		cumstances and t Use water spray t	measures that are appropriate to local cir- he surrounding environment. o cool unopened containers. ged containers from fire area if it is safe to do
	al protective equipment e-fighters	:	In the event of fire Use personal prot	e, wear self-contained breathing apparatus. ective equipment.

Personal precautions, protec- tive equipment and emer- gency procedures	:	Use personal protective equipment. Follow safe handling advice (see section 7) and personal protective equipment recommendations (see section 8).
Environmental precautions	:	Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Prevent spreading over a wide area (e.g., by containment or oil barriers). Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained.
Methods and materials for containment and cleaning up	:	Soak up with inert absorbent material. For large spills, provide diking or other appropriate containment to keep material from spreading. If diked material can be pumped, store recovered material in appropriate container. Clean up remaining materials from spill with suitable absorbent. Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable. Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.

SECTION 7. HANDLING AND STORAGE



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Local, Advic	nical measures /Total ventilation e on safe handling	 CONTROLS/F Use only with Do not get on Avoid breathin Do not swallow Do not get in e Handle in accorr practice, base assessment Keep containe Take care to p environment. If exposure to flushing system place. When using de Contaminated workplace. Wash contaminated morkplace. Wash contaminated contaminated morkplace. 	
Cond	itions for safe storage	: Keep in prope Keep tightly cl	rly labeled containers.
Mater	ials to avoid		ith the following product types:

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

:

ingredients with workplace control parameters						
CAS-No.	Value type	Control parame-	Basis			
	(Form of	ters / Permissible				
	exposure)	concentration				
55-56-1	TWA	40 µg/m3 (OEB 3)	Internal			
Further information: RSEN, DSEN						
	Wipe limit 100 µg/100 cm2 Internal					
	CAS-No. 55-56-1	CAS-No. Value type (Form of exposure) 55-56-1 TWA Further information: RSEN, DS	CAS-No.Value type (Form of exposure)Control parame- ters / Permissible concentration55-56-1TWA40 µg/m3 (OEB 3)Further information: RSEN, DSEN			

Ingredients with workplace control parameters

Engineering measures

Use appropriate engineering controls and manufacturing technologies to control airborne concentrations (e.g., dripless 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).



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			Minimize open ha	andling.		
Perso	onal protective equipn	nent				
Respi	ratory protection	:	No personal respiratory protective equipment normally required.			
Hand	protection					
Material		:	Chemical-resistar	nt gloves		
Eye p	emarks rotection and body protection	:	 Consider double gloving. Wear safety glasses with side shields or goggles. If the work environment or activity involves dusty condit mists or aerosols, wear the appropriate goggles. Wear a faceshield or other full face protection if there is potential for direct contact to the face with dusts, mists, aerosols. Work uniform or laboratory coat. Additional body garments should be used based upon t task being performed (e.g., sleevelets, apron, gauntlets disposable suits) to avoid exposed skin surfaces. Use appropriate degowning techniques to remove pote contaminated clothing. 			

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	liquid
Color	:	clear, Hazy, yellow
Odor	:	pine
Odor Threshold	:	No data available
рН	:	No data available
Melting point/freezing point	:	No data available
Initial boiling point and boiling range	:	No data available
Flash point	:	No data available
Evaporation rate	:	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
Vapor pressure	:	No data available



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	Relativ	e vapor density	:	No data available	9
	Relativ	e density	:	No data available	9
	Density	/	:	No data available	9
	Solubili Wat	ity(ies) er solubility	:	No data available	9
	Partitio octanol	n coefficient: n-	:	Not applicable	
		nition temperature	:	No data available	9
	Decom	position temperature	:	No data available	9
	Viscosi Visc	ty cosity, kinematic	:	No data available	9
	Explosi	ve properties	:	Not explosive	
	Oxidizi	ng properties	:	The substance o	r mixture is not classified as oxidizing.
	Molecu	lar weight	:	No data available	2
	Particle Particle	e characteristics e size	:	No data available	9

SECTION 10. STABILITY AND REACTIVITY

Reactivity Chemical stability Possibility of hazardous reac- tions	:	Not classified as a reactivity hazard. Stable under normal conditions. Can react with strong oxidizing agents.
Conditions to avoid Incompatible materials Hazardous decomposition products	:	None known. Oxidizing agents No hazardous decomposition products are known.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Inhalation Skin contact Ingestion Eye contact

Acute toxicity

Not classified based on available information.

Product:

Acute oral toxicity

: Acute toxicity estimate: > 5,000 mg/kg Method: Calculation method



Somponents: Acute oral toxicity : LD50 (Rat): 500 - 2,000 mg/kg Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg Acute oral toxicity : LD50 Oral (Mouse): 1,260 mg/kg Acute oral toxicity : LD50 Oral (Rabbit): 1,100 mg/kg Acute oral toxicity : LD50 Oral (Rabbit): 1,100 mg/kg Acute toxicity (other routes of routes of routes of route: intravenous Skin corrosion/irritation Causes mild skin irritation. Sergeis : Rabbit Mendel skin irritation. Species : Rabbit Mendel : Skin irritation Gauses serious eye damage/eye irritation Causes serious eye damage/eye irritation Causes serious eye damage. Dimponents: Montphenel, ethoxylated: Species : Rabbit Remarks : Rabbit Beseld on data from similar materials	Version 3.0	Revision Date: 06.09.2024	-	98 Number: 863782-00008	Date of last issue: 27.11.2023 Date of first issue: 11.10.2022
Nonylphenol, ethoxylated: Acute oral toxicity : LD50 (Rat): 500 - 2,000 mg/kg Pine oil: Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg Chlorhexidine: Acute oral toxicity : LD50 Oral (Mouse): 1,260 mg/kg Acute oral toxicity : LD50 Oral (Rabbit): 1,100 mg/kg LD50 Oral (Rat): 2,000 mg/kg . LD50 Oral (Rat): 2,000 mg/kg Acute toxicity (other routes of : LD50 (Rat): 2,000 mg/kg Acute toxicity (other routes of : LD50 (Rat): 2,000 mg/kg Acute toxicity (other routes of : LD50 (Rat): 2,000 mg/kg Acute toxicity (other routes of : LD50 (Rat): 2,000 mg/kg Acute toxicity (other routes of : LD50 (Rat): 2,000 mg/kg Acute toxicity (other routes of : LD50 (Rat): 2,000 mg/kg Acute toxicity (other routes of : LD50 (Rat): 2,000 mg/kg Acute toxicity (other routes of : LD50 (Rat): 2,000 mg/kg Acute toxicity (other routes of : LD50 (Rat): 2,000 mg/kg Acute toxicity (other routes of : LD50 (Rat): 2,000 mg/kg Skin corrosion/irritation Causes sinks is irritation. Species : <td></td> <td></td> <td></td> <td></td> <td></td>					
Acute oral toxicity : LD50 (Rat): 500 - 2,000 mg/kg Pine oil: Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg Acute oral toxicity : LD50 Oral (Mouse): 1,260 mg/kg Chlorhexidine: Acute oral toxicity : LD50 Oral (Mouse): 1,260 mg/kg Acute oral toxicity : LD50 Oral (Rabbit): 1,100 mg/kg LD50 Oral (Rat): 2,000 mg/kg LD50 Oral (Rat): 2,000 mg/kg Acute toxicity (other routes of : LD50 (Rat): 21 mg/kg administration) Application Route: Intravenous Skin corrosion/irritation Causes mild skin irritation. Causes mild skin irritation. Coecd Test Guideline 404 Result : No skin irritation Pine oil: : Species : Rabbit Remarks : Based on data from similar materials Serious eye damage/eye irritation : Causes serious eye damage. Components: Nonylphenol, ethoxylated: : Nonylphenol, ethoxylated: : Species : : Species : Rabbit : : Remarks : Based on data from similar materials <td>Comp</td> <td>onents:</td> <td></td> <td></td> <td></td>	Comp	onents:			
Pine oil: Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg Remarks: Based on data from similar materials Chlorhexidine: Acute oral toxicity : LD50 Oral (Mouse): 1,260 mg/kg LD50 Oral (Rabbit): 1,100 mg/kg LD50 Oral (Rabbit): 1,100 mg/kg LD50 Oral (Rat): 2,000 mg/kg Acute toxicity (other routes of : LD50 (Rat): 21 mg/kg Acute toxicity (other routes of : LD50 (Rat): 21 mg/kg Additional context intravenous Application Route: Intravenous Skin corrosion/irritation Causes mild skin irritation. Components: Nonylphenol, ethoxylated: Nonylphenol, ethoxylated: Species : Species : : Result : : Species : : Result : : Remarks : : Based on data from similar materials Serious eye damage/eye irritation Causes serious eye damage. Components: Nonylphenol, ethoxylated: Species : : Species : : Species : : Species : :	Nonyl	phenol, ethoxylated:			
Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg Remarks: Based on data from similar materials Chlorhexidine: Acute oral toxicity : LD50 Oral (Mouse): 1,260 mg/kg LD50 Oral (Rabbit): 1,100 mg/kg LD50 Oral (Rabbit): 1,100 mg/kg LD50 Oral (Rat): 2,000 mg/kg Acute toxicity (other routes of administration) : LD50 (Rat): 21 mg/kg Application Route: Intravenous Skin corrosion/irritation : Causes mild skin irritation. Components: : Nonylphenol, ethoxylated: Species : Rabbit Method : Pine oil: : No skin irritation Species : Rabbit Result : Serious eye damage/eye irritation : Causes serious eye damage. Components: : Nonylphenol, ethoxylated: Species : Rabbit Result : Remarks : Based on data from similar materials Serious eye damage/eye irritation : Causes serious eye damage. Components: : Nonylphenol, ethoxylated: Species : Rabbit Result : Result : : Irreversible effects on the eye Method	Acute	oral toxicity	:	LD50 (Rat): 500 -	2,000 mg/kg
Remarks: Based on data from similar material: Acute oral toxicity : LD50 Oral (Mouse): 1,260 mg/kg LD50 Oral (Rat): 2,000 mg/kg . LD50 Oral (Rat): 2,000 mg/kg Acute toxicity (other routes of administration) : LD50 (Rat): 21 mg/kg Acute toxicity (other routes of administration) : LD50 (Rat): 21 mg/kg Acute toxicity (other routes of administration) : DD50 (Rat): 21 mg/kg Acute toxicity (other routes of administration) : DD50 (Rat): 21 mg/kg Acute toxicity (other routes of administration) : DD50 (Rat): 21 mg/kg Acute toxicity (other routes of administration) : DD50 (Rat): 21 mg/kg Causes mild skin irritation. : Components: Nonylphenol, ethoxylated: : OECD Test Guideline 404 Result : : Skin irritation Remarks : : Based on data from similar materials Serious eye damage/eye irritation : Causes serious eye damage. Components: : : Nonylphenol, ethoxylated: Species : : : : Species : : :	Pine o	il:			
Acute oral toxicity : LD50 Oral (Mouse): 1,260 mg/kg LD50 Oral (Rabbit): 1,100 mg/kg LD50 Oral (Rabbit): 1,100 mg/kg LD50 Oral (Rat): 2,000 mg/kg Acute toxicity (other routes of administration) : Skin corrosion/irritation Causes mild skin irritation. Components: Nonylphenol, ethoxylated: Species : Species : Method : OECD Test Guideline 404 Result : Species : Result : Species : Result : Species : Result : Species : Remarks : Based on data from similar materials Serious eye damage/eye irritation Causes serious eye damage. Components: Nonylphenol, ethoxylated: Species : Species : Result : Method : OECD Test Guideline 405 Pine oil:	Acute	oral toxicity	:		
LD50 Oral (Rabbit): 1,100 mg/kg LD50 Oral (Rat): 2,000 mg/kg Acute toxicity (other routes of : LD50 (Rat): 21 mg/kg administration)	Chlorh	nexidine:			
LD50 Oral (Rat): 2,000 mg/kg Acute toxicity (other routes of : LD50 (Rat): 21 mg/kg Amplication Route: Intravenous Skin corrosion/irritation Causes mild skin irritation. Components: Nonylphenol, ethoxylated: Species : Rabbit Method : OECD Test Guideline 404 Result : No skin irritation Pine oil: Species : Rabbit Result : Skin irritation Remarks : Based on data from similar materials Serious eye damage/eye irritation Causes serious eye damage. Species : Rabbit Result : Strin irritation Causes serious eye damage. Species : Rabbit Result : Disconse (Rat): 21 mg/kg Application Route: Intravenous Serious eye damage/eye irritation Causes serious eye damage. Species : Rabbit Result : Irreversible effects on the eye Method : OECD Test Guideline 405 Pine oil: Species : Bovine cornea Method : OECD Test Guideline 437	Acute	oral toxicity	:	LD50 Oral (Mouse	e): 1,260 mg/kg
Acute toxicity (other routes of administration) LD50 (Rat): 21 mg/kg Application Route: Intravenous Skin corrosion/irritation Causes mild skin irritation. Components: Nonylphenol, ethoxylated: Species : Rabbit Method : OECD Test Guideline 404 Result : No skin irritation Pine oil: : Species : Rabbit Result : No skin irritation Pine oil: : Species : Rabbit Result : Skin irritation Remarks : Based on data from similar materials Serious eye damage/eye irritation : Causes serious eye damage. Components: : Nonylphenol, ethoxylated: Nonylphenol, ethoxylated: : Irreversible effects on the eye Method : OECD Test Guideline 405 Pine oil: : Irreversible effects on the eye Method : OECD Test Guideline 405				LD50 Oral (Rabbi	t): 1,100 mg/kg
administration) Application Route: Intravenous Skin corrosion/irritation Causes mild skin irritation. Components: Nonylphenol, ethoxylated: Species : Result : Pine oil: Species : Result : No skin irritation Pine oil: Species : Result : No skin irritation Result : Species : Result : Species : Result : Species : Result : Species : Remarks : Based on data from similar materials Serious eye damage/eye irritation Causes serious eye damage. Components: Nonylphenol, ethoxylated: Result : Method : OECD Test Guideline 405 Pine oil: Species : Species : Boecies				LD50 Oral (Rat): 2	2,000 mg/kg
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Nonylphenol, ethoxylated: Species : Method : OECD Test Guideline 404 Result : No skin irritation Pine oil: . . Species : Rabbit Result : No skin irritation Pine oil: . . Species : Rabbit Result : Skin irritation Remarks : Based on data from similar materials Serious eye damage/eye irritation Causes serious eye damage. Components: . . Nonylphenol, ethoxylated: . Species : Rabbit Result : . Method : . Pine oil: . . Species : . Pine oil: . . Species : . Method : . OECD Test Guideline 405 .	Cause	s mild skin irritation.			
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Serious eye damage/eye irritation Causes serious eye damage. Components: Nonylphenol, ethoxylated: Species : Rabbit Result : Irreversible effects on the eye Method : OECD Test Guideline 405 Pine oil: Species : Bovine cornea Method : OECD Test Guideline 437	Specie Result	S	:	Skin irritation	
Causes serious eye damage. Components: Nonylphenol, ethoxylated: Species : Rabbit Result : Irreversible effects on the eye Method : OECD Test Guideline 405 Pine oil: Species : Bovine cornea Method : OECD Test Guideline 437	Remar	ks	:	Based on data fro	m similar materials
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Species : Rabbit Result : Irreversible effects on the eye Method : OECD Test Guideline 405 Pine oil: Species : Bovine cornea Method : OECD Test Guideline 437					
Species : Rabbit Result : Irreversible effects on the eye Method : OECD Test Guideline 405 Pine oil: Species : Bovine cornea Method : OECD Test Guideline 437	Nonylı	phenol, ethoxylated:			
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Species:Bovine corneaMethod:OECD Test Guideline 437			:		
Method : OECD Test Guideline 437	Pine o	il:			
	Method	d	: : :	OECD Test Guide	
Result : No eye irritation	Result		:	No eye irritation	
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	hexidine:		D 11 %	
Speci Resul		:	Rabbit Mild eye irritation	
Resp	iratory or skin sensitiz	atic	n	
	sensitization			
-	ause an allergic skin re	actio	on.	
	iratory sensitization assified based on availa	able	information.	
Comp	oonents:			
Nony	Iphenol, ethoxylated:			
Test		:	Maximization Tes	t
	es of exposure	:	Skin contact	
Speci Resul		;	Guinea pig negative	
Rema		:	•	om similar materials
Pine	oil:			
Asses Rema	ssment	:		lence of skin sensitization in humans
	IIKS	•	Dased on data no	
	cell mutagenicity			
	cell mutagenicity assified based on availa	able	information.	
Not cl		able	information.	
Not cl	assified based on availa	able	information.	
Not cl	assified based on availa	able :	Test Type: Bacter	ial reverse mutation assay (AMES)
Not cl	assified based on availa conents: Iphenol, ethoxylated:	able :	Test Type: Bacter Result: negative	
Not cl	assified based on availa conents: Iphenol, ethoxylated:	able :	Test Type: Bacter Result: negative	rial reverse mutation assay (AMES) on data from similar materials
Not cl Comp Nony Geno Pine	assified based on availa <u>conents:</u> Iphenol, ethoxylated: toxicity in vitro oil:	able :	Test Type: Bacter Result: negative Remarks: Based	on data from similar materials
Not cl Comp Nony Geno Pine	assified based on availa <u>conents:</u> Iphenol, ethoxylated: toxicity in vitro	able :	Test Type: Bacter Result: negative Remarks: Based Test Type: Bacter	on data from similar materials rial reverse mutation assay (AMES)
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Not cl Comp Nony Geno Pine	assified based on availa <u>conents:</u> Iphenol, ethoxylated: toxicity in vitro oil:	able :	Test Type: Bacter Result: negative Remarks: Based Test Type: Bacter Method: OECD To Result: negative Remarks: Based	on data from similar materials rial reverse mutation assay (AMES) est Guideline 471 on data from similar materials lamage and repair, unscheduled DNA syn-
Not cl Comp Nony Geno Pine	assified based on availa <u>conents:</u> Iphenol, ethoxylated: toxicity in vitro oil:	:	Test Type: Bacter Result: negative Remarks: Based Test Type: Bacter Method: OECD T Result: negative Remarks: Based Test Type: DNA c thesis in mammal Method: OPPTS 8	on data from similar materials rial reverse mutation assay (AMES) est Guideline 471 on data from similar materials lamage and repair, unscheduled DNA syn- ian cells (in vitro)
Not cl Comp Nony Geno Pine	assified based on availa <u>conents:</u> Iphenol, ethoxylated: toxicity in vitro oil:	able :	Test Type: Bacter Result: negative Remarks: Based Test Type: Bacter Method: OECD T Result: negative Remarks: Based Test Type: DNA o thesis in mammal Method: OPPTS & Result: negative	on data from similar materials rial reverse mutation assay (AMES) est Guideline 471 on data from similar materials lamage and repair, unscheduled DNA syn- ian cells (in vitro)
Not cl Comr Nony Geno Pine d Geno	assified based on availa <u>ponents:</u> Iphenol, ethoxylated: toxicity in vitro oil: toxicity in vitro	able : :	Test Type: Bacter Result: negative Remarks: Based Test Type: Bacter Method: OECD To Result: negative Remarks: Based Test Type: DNA of thesis in mammal Method: OPPTS & Result: negative Remarks: Based	on data from similar materials rial reverse mutation assay (AMES) est Guideline 471 on data from similar materials lamage and repair, unscheduled DNA syn- ian cells (in vitro) 370.5550 on data from similar materials
Not cl Comr Nony Geno Pine d Geno	assified based on availa <u>conents:</u> Iphenol, ethoxylated: toxicity in vitro oil:	able : :	Test Type: Bacter Result: negative Remarks: Based Test Type: Bacter Method: OECD To Result: negative Remarks: Based Test Type: DNA of thesis in mammal Method: OPPTS & Result: negative Remarks: Based Test Type: Mamm	on data from similar materials rial reverse mutation assay (AMES) est Guideline 471 on data from similar materials lamage and repair, unscheduled DNA syn- ian cells (in vitro) 370.5550 on data from similar materials nalian erythrocyte micronucleus test (in vivo
Not cl Comr Nony Geno Pine d Geno	assified based on availa <u>ponents:</u> Iphenol, ethoxylated: toxicity in vitro oil: toxicity in vitro	able : :	Test Type: Bacter Result: negative Remarks: Based Test Type: Bacter Method: OECD To Result: negative Remarks: Based Test Type: DNA of thesis in mammal Method: OPPTS & Result: negative Remarks: Based Test Type: Mamm cytogenetic assay Species: Mouse	on data from similar materials rial reverse mutation assay (AMES) est Guideline 471 on data from similar materials lamage and repair, unscheduled DNA syn- ian cells (in vitro) 370.5550 on data from similar materials nalian erythrocyte micronucleus test (in vivo



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			Method: OPPTS Result: negative Remarks: Based	870.5395 on data from similar materials
Chlo	rhexidine:			
Geno	otoxicity in vitro	:	Test Type: Bacter Result: negative	rial reverse mutation assay (AMES)
				nosomal aberration nese hamster ovary cells
Geno	otoxicity in vivo	:	Test Type: domin Species: Mouse Result: negative	ant lethal test
			Test Type: Cytog Species: Hamster Result: negative	
II Carc	inogenicity			
	lassified based on availa	able	information.	
	ponents:			
Chlo	rhexidine:			
Expo	cation Route sure time uency of Treatment EL		Rat oral (drinking wat 2 Years daily 38 mg/kg body wa negative	
Spec	ies	:	Rat	
Appli	cation Route	:	oral (drinking wat	er)
	sure time Jency of Treatment	:	2 Years daily	
NOÁ Resu	EL	:	158 mg/kg body v negative	weight
	oductive toxicity			
	lassified based on availa ponents:	able	information.	
Pine	oil:			
Effec	ts on fetal development	:	Species: Rat Application Route	vo-fetal development e: Ingestion est Guideline 414
				on data from similar materials



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Chlo	rhexidine:			
	ts on fertility	:	Species: Rat Fertility: NOAEL:	100 mg/kg body weight
Effec	ts on fetal development	:	Species: Rat Developmental Te	oxicity: NOAEL: 300 mg/kg body weight
			Species: Rabbit Developmental Te	oxicity: NOAEL: 40 mg/kg body weight
	T-single exposure classified based on availa	able	information.	
	T-repeated exposure			
Not c	lassified based on availa	able	information.	
<u>Com</u>	ponents:			
Chlo	rhexidine:			
	et Organs ssment	:	Liver May cause dama exposure.	ge to organs through prolonged or repeated
Repe	eated dose toxicity			
<u>Com</u>	ponents:			
Pine	oil:			
Spec		:	Rat	
NOA Appli	EL cation Route	÷	> 200 mg/kg Skin contact	
	sure time	:	90 Days Based on data fro	om similar materials
Chlo	rhexidine:			
Spec		:	Rat	
NOA		:	158 mg/kg	
	cation Route sure time	:	Oral 2 y	
Spec	ies		Rabbit	
LÒAI	EL	:	250 mg/kg	
	cation Route	:	Dermal 13 Weeks	
	sure time et Organs	:	Skin, Liver	
A *	ration towisity			
	ration toxicity classified based on availa	ahle	information	
		1010		



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Components:									
oil:									
ubstance or mixture i	is know	n to cause huma	n aspiration toxicity hazards or has to be re-						
d as if it causes a hu	man as	piration toxicity h	azard.						
rience with human e	exposu	re							
oonents:									
hexidine:									
ral Information	:	Symptoms: Hea	dache						
ition	:								
			matic appearance, bronchospasm, discomfor						
tion			per respiratory tract infection						
			trointestinal disturbance, Gastrointestinal trac						
	06.09.2024 ponents: poll: ubstance or mixture d as if it causes a hu rience with human of ponents: hexidine: ral Information	06.09.2024 108 oonents: ubstance or mixture is known d as if it causes a human asp rience with human exposur oonents: hexidine: ral Information : tion :	06.09.2024 10863782-00008 ponents: 10863782-00008 poil: 10863782-00008 ubstance or mixture is known to cause huma 10863782-00008 d as if it causes a human aspiration toxicity h rience with human exposure ponents: hexidine: ral Information : Symptoms: Heat ation : Target Organs: Symptoms: Asth in the chest, upp tion : Target Organs: Symptoms: Gas						

Ecotoxicity

Components:

Nonylphenol, ethoxylated:

Toxicity to fish	:	LC50 (Pimephales promelas (fathead minnow)): > 0.1 - 1 mg/l Exposure time: 96 h Remarks: Based 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	:	ErC50 (Selenastrum capricornutum (green algae)): > 1 - 10 mg/l Exposure time: 72 h Method: OECD Test Guideline 201 Remarks: Based on data from similar materials
		EC10 (Selenastrum capricornutum (green algae)): > 1 mg/l Exposure time: 72 h Method: OECD Test Guideline 201 Remarks: Based on data from similar materials
Toxicity to fish (Chronic tox- icity)	:	NOEC (Oryzias latipes (Japanese medaka)): > 0.1 - 1 mg/l Exposure time: 100 d Remarks: Based on data from similar materials
Toxicity to daphnia and other aquatic invertebrates (Chron- ic toxicity)	:	NOEC (Mysidopsis bahia (opossum shrimp)): > 0.001 - 0.01 mg/l Exposure time: 28 d Remarks: Based on data from similar materials



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Pine o	bil:			
	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:			
Toxici	ty to fish	:	(Fish): 2.088 mg/ Exposure time: 96 Method: ECOSAF ships)	
	ty to daphnia and other c invertebrates	:	Exposure time: 48	agna (Water flea)): 0.222 mg/l 3 h & (Ecological Structure Activity Relation-
Toxici plants	ty to algae/aquatic	:	mg/l End point: Growth Exposure time: 96	
II Persis	stence and degradabili	ity		
Comp	onents:			
	phenol, ethoxylated: gradability	:	Result: Not readily Remarks: Based o	y biodegradable. on data from similar materials
Pine o Biode	bil: gradability	:	Result: Readily bi Remarks: Based o	odegradable. on data from similar materials
	hexidine: gradability	:	Remarks: Not inh	erently biodegradable.
Bioac	cumulative potential			
<u>Comp</u>	onents:			
Partiti	phenol, ethoxylated: on coefficient: n- ol/water	:	log Pow: 4.48	
Pine o Partitio	bil: on coefficient: n-	:	log Pow: > 4	



rsion)	Revision Date: 06.09.2024		OS Number: 863782-00008	Date of last issue: 27.11.2023 Date of first issue: 11.10.2022
octan	ol/water		Remarks: Calcu	lation
Chlor	hexidine:			
	ion coefficient: n-		log Pow: 4.85	
	ol/water	•	log i ow. 4.00	
	lity in soil			
No da	ata available			
	r adverse effects ata available			
CTION	13. DISPOSAL CONSI	DER	ATIONS	
Dispo	osal methods			
Waste	e from residues	:		of waste into sewer. cordance with local regulations.
Conta	aminated packaging	:	Empty container handling site for	s should be taken to an approved waste recycling or disposal. specified: Dispose of as unused product.
	14. TRANSPORT INFO			
.011014		/ \ •	Anon	
Interr	national Regulations			
	_			
UNRI	_	:	UN 3082	
UNR1 UN ni	ſDG	:		ALLY HAZARDOUS SUBSTANCE, LIQUID,
UNRT UN nu Prope	TDG umber er shipping name	:	ENVIRONMENT N.O.S. (Chlorhexidine,	ALLY HAZARDOUS SUBSTANCE, LIQUID,
UNRI UN nu Prope Class	TDG umber er shipping name		ENVIRONMENT N.O.S. (Chlorhexidine, 9	
UNR1 UN nu Prope Class Packi	FDG umber er shipping name ng group		ENVIRONMENT N.O.S. (Chlorhexidine, 9 III	
UNRI UN nu Prope Class Packi Label	FDG umber er shipping name ng group		ENVIRONMENT N.O.S. (Chlorhexidine, 9	
UNRI UN nu Prope Class Packi Label Enviro	TDG umber er shipping name ng group s onmentally hazardous		ENVIRONMENT N.O.S. (Chlorhexidine, 9 III 9	
UNRI UN nu Prope Class Packi Label	TDG umber er shipping name ng group s onmentally hazardous -DGR		ENVIRONMENT N.O.S. (Chlorhexidine, 9 III 9	
UNRT UN nu Prope Class Packi Label Enviro IATA- UN/ID	TDG umber er shipping name ng group s onmentally hazardous -DGR	: : : : : : : : : : : : : : : : : : : :	ENVIRONMENT N.O.S. (Chlorhexidine, 9 III 9 yes UN 3082 Environmentally	
UNRT UN nu Prope Class Packi Label Enviro IATA- UN/ID Prope	TDG umber er shipping name ng group s onmentally hazardous -DGR 0 No. er shipping name	· · · · · · · · · · · · · · · · · · ·	ENVIRONMENT N.O.S. (Chlorhexidine, 9 III 9 yes UN 3082 Environmentally (Chlorhexidine, 9	Nonylphenol, ethoxylated) hazardous substance, liquid, n.o.s.
UNRT UN nu Prope Class Packi Label Enviro IATA- UN/ID Prope Class Packi	TDG umber er shipping name ng group s onmentally hazardous -DGR 0 No. er shipping name	· · · · · · · · · · · · · · · · · · ·	ENVIRONMENT N.O.S. (Chlorhexidine, 9 III 9 yes UN 3082 Environmentally (Chlorhexidine, 9 III	Nonylphenol, ethoxylated) hazardous substance, liquid, n.o.s.
UNRT UN nu Prope Class Packi Label Enviro IATA- UN/ID Prope Class Packi Label	TDG umber er shipping name ng group s onmentally hazardous -DGR 0 No. er shipping name ng group s	· · · · · · · · · · · · · · · · · · ·	ENVIRONMENT N.O.S. (Chlorhexidine, 9 III 9 yes UN 3082 Environmentally (Chlorhexidine, 9 III Miscellaneous	Nonylphenol, ethoxylated) hazardous substance, liquid, n.o.s.
UNRT UN nu Prope Class Packi Label Enviro IATA- UN/IE Prope Class Packi Label Packi aircra	TDG umber er shipping name ng group s onmentally hazardous -DGR 0 No. er shipping name ng group s ng instruction (cargo ft)		ENVIRONMENT N.O.S. (Chlorhexidine, 9 III 9 yes UN 3082 Environmentally (Chlorhexidine, 9 III Miscellaneous 964	Nonylphenol, ethoxylated) hazardous substance, liquid, n.o.s.
UNRT UN nu Prope Class Packi Label Enviro IATA- UN/IE Prope Class Packi Label Packi aircra Packi	FDG umber er shipping name ng group s onmentally hazardous -DGR 0 No. er shipping name ng group s ng instruction (cargo		ENVIRONMENT N.O.S. (Chlorhexidine, 9 III 9 yes UN 3082 Environmentally (Chlorhexidine, 9 III Miscellaneous	Nonylphenol, ethoxylated) hazardous substance, liquid, n.o.s.
UNRT UN nu Prope Class Packi Label Enviro IATA- UN/IE Prope Class Packi Label Packi aircra Packi ger ai	TDG umber er shipping name ng group s onmentally hazardous -DGR 0 No. er shipping name ng group s ng instruction (cargo ft) ng instruction (passen-		ENVIRONMENT N.O.S. (Chlorhexidine, 9 III 9 yes UN 3082 Environmentally (Chlorhexidine, 9 III Miscellaneous 964	Nonylphenol, ethoxylated) hazardous substance, liquid, n.o.s.
UNRT UN nu Prope Class Packi Label Enviro IATA- UN/IE Prope Class Packi Label Packi aircra Packi ger ai Enviro	TDG umber er shipping name ng group s onmentally hazardous -DGR 0 No. er shipping name ng group s ng instruction (cargo ft) ng instruction (passen- rcraft)		ENVIRONMENT N.O.S. (Chlorhexidine, 9 III 9 yes UN 3082 Environmentally (Chlorhexidine, 9 III Miscellaneous 964 964 yes	Nonylphenol, ethoxylated) hazardous substance, liquid, n.o.s.
UNRT UN nu Prope Class Packi Label Enviro Class Packi Label Packi aircra Packi ger ai Enviro IMDG UN nu	TDG umber er shipping name ng group sonmentally hazardous -DGR 0 No. er shipping name ng group s ng instruction (cargo ft) ng instruction (passen- rcraft) onmentally hazardous G-Code umber	:	ENVIRONMENT N.O.S. (Chlorhexidine, 9 III 9 yes UN 3082 Environmentally (Chlorhexidine, 9 III Miscellaneous 964 964 yes UN 3082	Nonylphenol, ethoxylated) hazardous substance, liquid, n.o.s. Nonylphenol, ethoxylated)
UNRT UN nu Prope Class Packi Label Enviro Class Packi Label Packi aircra Packi ger ai Enviro IMDG UN nu	TDG umber er shipping name ng group sonmentally hazardous -DGR 0 No. er shipping name ng group s ng instruction (cargo ft) ng instruction (passen- rcraft) onmentally hazardous i-Code		ENVIRONMENT N.O.S. (Chlorhexidine, 9 III 9 yes UN 3082 Environmentally (Chlorhexidine, 9 III Miscellaneous 964 964 yes UN 3082 ENVIRONMENT N.O.S.	Nonylphenol, ethoxylated) hazardous substance, liquid, n.o.s. Nonylphenol, ethoxylated)
UNRI UN nu Prope Class Packi Label Enviro IATA- UN/ID Prope Class Packi Label Packi aircra Packi ger ai Enviro IMDG UN nu Prope	TDG umber er shipping name ang group sonmentally hazardous -DGR 0 No. er shipping name ang group song instruction (cargo ft) ang instruction (passen- rcraft) conmentally hazardous i-Code umber er shipping name	:	ENVIRONMENT N.O.S. (Chlorhexidine, 9 III 9 yes UN 3082 Environmentally (Chlorhexidine, 9 III Miscellaneous 964 964 yes UN 3082 ENVIRONMENT N.O.S. (Chlorhexidine, I	Nonylphenol, ethoxylated) hazardous substance, liquid, n.o.s.
UNRT UN nu Prope Class Packi Label Enviro IATA- UN/ID Prope Class Packi aircra Packi ger ai Enviro IMDG UN nu Prope	TDG umber er shipping name ang group sonmentally hazardous -DGR 0 No. er shipping name ang group song instruction (cargo ft) ang instruction (passen- rcraft) conmentally hazardous i-Code umber er shipping name	:	ENVIRONMENT N.O.S. (Chlorhexidine, 9 III 9 yes UN 3082 Environmentally (Chlorhexidine, 9 III Miscellaneous 964 964 yes UN 3082 ENVIRONMENT N.O.S.	Nonylphenol, ethoxylated) hazardous substance, liquid, n.o.s. Nonylphenol, ethoxylated)



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	els S Code ne pollutant) F-A, S-F ⁄es	
	asport in bulk accordin applicable for product a	•		POL 73/78 and the IBC Code
Don	nestic regulation			
UN	/-002-SCT number per shipping name	: E N	N.O.S.	ALLY HAZARDOUS SUBSTANCE, LIQUID,
Clas Pacl Labe	king group	: 9 : 11 : 9	Ì	Nonylphenol, ethoxylated)
Spe	cial precautions for us	ser		
	•	<i>,</i> .		or informational purposes only, and solely rial as it is described within this Safety Data

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.

SECTION 15. REGULATORY INFORMATION

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

Federal Law for the control of chemical precursors, : Not applicable essential chemical products and machinery for producing capsules, tablets and pills.

The ingredients of this	product are reported	I in the following inventories:

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

SECTION 16. OTHER INFORMATION

Revision Date	: 06.09.2024
Date format	: dd.mm.yyyy

Full text of other abbreviations

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); 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; ERG - Emergency Response Guide; GHS - Globally Harmonized Sys-



Chlorhexidine (0.8%) Liquid Formulation

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tem; 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; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; 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; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; 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; WHMIS - Workplace Hazardous Materials Information System

Sources of key data used to : compile the Material Safety Data Sheet Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agency, http://echa.europa.eu/

Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

The information is considered as correct, but not exhaustive, and will be used only as a guide, which is based in the current knowledge of the substance or mixture, and is applicable to proper safety precautions for the product.

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