

according to GB/T 16483 and GB/T 17519

Chlorhexidine Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 2023/09/30
1.11	2024/04/06	5322103-00012	Date of first issue: 2019/11/25

1. PRODUCT AND COMPANY IDENTIFICATION

Product name	:	Chlorhexidine Formulation			
Manufacturer or supplier's details					
Company	·	MSD			
Address	:	No. 485 Jing Tai Road Pu Tuo District - Shanghai - China 200331			
Telephone	:	+1-908-740-4000			
Emergency telephone number	:	86-571-87268110			
E-mail address	:	EHSDATASTEWARD@msd.com			
Recommended use of the chemical and restrictions on use					
Recommended use Restrictions on use	:	Veterinary product Not applicable			

2. HAZARDS IDENTIFICATION

Emergency Overview

Appearance Colour Odour	:	liquid light pink No data available
Toxic to aquatic life with long I	asti	ng effects.
GHS Classification		
Short-term (acute) aquatic hazard	:	Category 2
Long-term (chronic) aquatic hazard	:	Category 2
GHS label elements		
Hazard pictograms	:	¥2
Signal word Hazard statements	:	None H411 Toxic to aquatic life with long lasting effects.



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Precautionary statements

Prevention:

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P273 Avoid release to the environment.

Response:

P391 Collect spillage.

Disposal:

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

Physical and chemical hazards

Not classified based on available information.

Health hazards

Not classified based on available information.

Environmental hazards

Toxic to aquatic life. Toxic to aquatic life with long lasting effects.

Other hazards which do not result in classification

Dust contact with the eyes can lead to mechanical irritation. Contact with dust can cause mechanical irritation or drying of the skin. May form explosive dust-air mixture during processing, handling or other means.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
Ethanol#	64-17-5	>= 1 -< 10
Chlorhexidine	55-56-1	>= 2.5 -< 10
Linalyl acetate	115-95-7	>= 0.1 -< 0.25

Voluntarily-disclosed substance

4. FIRST AID MEASURES

General advice	 In the case of accident or if you feel unwell, seek medical 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 soap and plenty of water.
	Get medical attention if symptoms occur.
In case of eye contact	: If in eyes, rinse well with water.
-	Get medical attention if irritation develops and persists.
If swallowed	: If swallowed, DO NOT induce vomiting. Get medical attention if symptoms occur.

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and e delay Prote	important symptoms effects, both acute and /ed ection of first-aiders s to physician	:	Contact with due the skin. Dust contact wit First Aid respon and use the reco when the potent	broughly with water. st can cause mechanical irritation or drying of h the eyes can lead to mechanical irritation. ders should pay attention to self-protection, commended personal protective equipment ial for exposure exists (see section 8). attically and supportively.	
5. FIREFI	GHTING MEASURES				
	ble extinguishing media	:	Water spray Alcohol-resistan Carbon dioxide Dry chemical None known.		
medi Spec	a cific hazards during fire-	:		nbustion products may be a hazard to health.	
fighti Haza ucts	ng ardous combustion prod-	:	Carbon oxides		
Spec ods	ific extinguishing meth-	:	cumstances and Use water spray	ng measures that are appropriate to local cir- d the surrounding environment. v to cool unopened containers. aged containers from fire area if it is safe to de	
	cial protective equipment refighters	:	Evacuate area. In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.		
6. ACCID	ENTAL RELEASE MEAS	SUF	ES		
tive e	onal precautions, protec- equipment and emer- y procedures	:	Follow safe han	otective equipment. dling advice (see section 7) and personal pro- nt recommendations (see section 8).	
Envir	ronmental precautions	:	Prevent further Prevent spreadi barriers). Retain and disp	the environment. eakage or spillage if safe to do so. ng over a wide area (e.g. by containment or c ose of contaminated wash water. s should be advised if significant spillages ined.	
	ods and materials for ainment and cleaning up	:	Avoid dispersal with compresse Dust deposits sl es, as these ma	ert absorbent material. of dust in the air (i.e., clearing dust surfaces d air). nould not be allowed to accumulate on surfac y form an explosive mixture if they are re- atmosphere in sufficient concentration.	

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		ment to keep n be pumped, sto Clean up rema bent. Local or nation posal of this m employed in th mine which reg Sections 13 an	b, provide dyking or other appropriate contain- naterial from spreading. If dyked material can ore recovered material in appropriate container. and materials from spill with suitable absor- nal regulations may apply to releases and dis- aterial, as well as those materials and items the cleanup of releases. You will need to deter- gulations are applicable. Ind 15 of this SDS provide information regarding to national requirements.	
7. HANDL	ING AND STORAGE			
Hand	lling			
	nical measures	causing an exp Provide adequ	y may accumulate and ignite suspended dust blosion. ate precautions, such as electrical grounding or inert atmospheres.	
	I/Total ventilation te on safe handling	 Use only with a Do not breather Do not swallow Avoid contact with a Avoid prolonge Handle in accord practice, based sessment Minimize dust Keep containe Keep away fro Take precaution 	adequate ventilation. e mist or vapours. v.	
Avoid	ance of contact	: Oxidizing ager	nts	
Stora	age			
Cond	litions for safe storage			
Mate	rials to avoid		dance with the particular national regulations. ith the following product types: g agents	
Pack	aging material	: Unsuitable ma	terial: None known.	

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components CA	(Fo	orm of	Control parame- ters / Permissible concentration	Basis
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Ethanol	64-17-5	STEL	1,000 ppm	ACGIH		
Chlorhexidine	55-56-1	TWA	40 µg/m3 (OEB 3)	Internal		
	Further inform					
		Wipe limit	400 µg/100 cm2	Internal		
	 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). Minimize open handling. 					
Personal protective equipment						
Respiratory protection	sure assessn ommended g	If adequate local exhaust ventilation is not available or expo- sure assessment demonstrates exposures outside the rec- ommended guidelines, use respiratory protection. Combined particulates and organic vapour type 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				
Filter type Eye/face protection	Wear safety of If the work er mists or aero Wear a faces					
Skin and body protection	Work uniform or laboratory coat. Additional body garments should be used based upon the task being performed (e.g., sleevelets, apron, gauntlets, dis- posable suits) to avoid exposed skin surfaces. Use appropriate degowning techniques to remove potentially contaminated clothing.					
Hand protection	containinator	, orothing.				
Material	Chemical-res	istant gloves				
Remarks Hygiene measures	Consider double gloving. If exposure to chemical is likely during typical use, provide eye flushing systems and safety showers close to the work- ing place. When using do not eat, drink or smoke. Wash contaminated clothing before re-use. The effective operation of a facility should include review of engineering controls, proper personal protective equipment, appropriate degowning and decontamination procedures, industrial hygiene monitoring, medical surveillance and the use of administrative controls.					

9. PHYSICAL AND CHEMICAL PROPERTIES



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А	ppeara	ance	:	liquid	
С	Colour		:	light pink	
С	Ddour		:	No data available	9
С)dour T	Threshold	:	No data available	9
р	H		:	5.0 - 6.5	
N	lelting	point/freezing point	:	No data available	9
	nitial bo ange	piling point and boiling	:	No data available	9
F	lash po	oint	:	No data available	9
E	vapora	ation rate	:	No data available	9
F	lamma	ability (solid, gas)	:	May form explosi dling or other me	ive dust-air mixture during processing, han- ans.
F	lamma	bility (liquids)	:	No data available	9
		explosion limit / Upper bility limit	:	No data available	
		explosion limit / Lower bility limit	:	No data available	
V	/apour	pressure	:	No data available	9
R	Relative	e vapour density	:	No data available	9
R	Relative	edensity	:	No data available	9
D	Density		:	No data available	9
S	Solubilit Wate	ry(ies) er solubility	:	No data available	9
		n coefficient: n-	:	Not applicable	
	ctanol/ uto-igr	water hition temperature	:	No data available	9
D	ecomp	position temperature	:	No data available	9
V	/iscosit Visco	y osity, kinematic	:	No data available	9
E	xplosiv	ve properties	:	Not explosive	



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Oxidi	zing properties	:	The substance o	r mixture is not classified as oxidizing.
Moleo	cular weight	:	No data available	9
	cle characteristics cle size	:	Not applicable	
0. STAB	ILITY AND REACTIVITY	,		
	tivity nical stability bility of hazardous reac-	:	Stable under nor May form explos dling or other me	ve dust-air mixture during processing, han-
Cond	itions to avoid	:	Heat, flames and Avoid dust forma	
	npatible materials rdous decomposition icts	:	Oxidizing agents	
1. TOXIC	OLOGICAL INFORMAT		I	
Expo	sure routes	:	Inhalation Skin contact Ingestion Eye contact	
	e toxicity			
	lassified based on availa	ble	information.	
Prod Acute	e oral toxicity	:	Acute toxicity esti Method: Calculati	mate: > 5,000 mg/kg on method
Acute		:		
Acute	e oral toxicity ponents:	:		
Acute <u>Com</u> Ethai	e oral toxicity ponents:			on method
Acute <u>Com</u> Ethai Acute	e oral toxicity ponents: nol:		Method: Calculati LD50 (Rat): > 5,0	on method 00 mg/kg est Guideline 401 ' mg/l h
Acute Com Ethai Acute	e oral toxicity ponents: nol: e oral toxicity		Method: Calculati LD50 (Rat): > 5,0 Method: OECD T LC50 (Rat): 124.7 Exposure time: 4	on method 00 mg/kg est Guideline 401 ' mg/l h

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			LD50 Oral (Rabbi	t): 1,100 mg/kg
			LD50 Oral (Rat): 2	2,000 mg/kg
	e toxicity (other routes of inistration)	:	LD50 (Rat): 21 mą Application Route	
Lina	lyl acetate:			
Acut	e oral toxicity	:	LD50 (Rat): > 9,00	00 mg/kg
Acut	e dermal toxicity	:	LD50 (Rabbit): > 5	5,000 mg/kg
	corrosion/irritation	ble	information.	
Com	ponents:			
	anol:			
Spec Meth		:	Rabbit OECD Test Guide	line 404
Resi		:	No skin irritation	line 404
Lina	lyl acetate:			
Spee		:	Rabbit	
Meth Resi		:	OECD Test Guide Skin irritation	line 404
	ous eye damage/eye irri			
	classified based on availa 1ponents:	DIE	Information.	
	anol:			
Spec			Rabbit	
Res	ult	:	Irritation to eyes, r	eversing within 21 days
Meth	nod	:	OECD Test Guide	line 405
Chlo	orhexidine:			
Spec Resi		:	Rabbit Mild ave irritation	
Resi	uit	•	Mild eye irritation	
	lyl acetate:			
Spec		:	Rabbit	oversing within 01 down
Res Meth		•	OECD Test Guide	eversing within 21 days line 405
	harks	:		m similar materials



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Respiratory or skin sensitisation

Skin sensitisation

Not classified based on available information.

Respiratory sensitisation

Not classified based on available information.

Components:

Ethanol:Test TypeExposure routesSpeciesResult	Local lymph node assay (LLNA) Skin contact Mouse negative
Linalyl acetate:	
Test Type : Exposure routes :	Local lymph node assay (LLNA) Skin contact
Species :	Mouse
Method : Result :	OECD Test Guideline 429 positive
Assessment :	Probability or evidence of low to moderate skin sensitisation rate in humans
Germ cell mutagenicity	
Not classified based on availabl	e information.
Components:	
Ethanol:	
Genotoxicity in vitro :	Test Type: In vitro mammalian cell gene mutation test Result: negative
	Test Type: Bacterial reverse mutation assay (AMES) Result: negative
Genotoxicity in vivo :	Test Type: Rodent dominant lethal test (germ cell) (in vivo) Species: Mouse Application Route: Ingestion Result: equivocal
Chlorhexidine:	
Genotoxicity in vitro :	Test Type: Bacterial reverse mutation assay (AMES) Result: negative
	Test Type: Chromosomal aberration Test system: Chinese hamster ovary cells Result: negative



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Geno	otoxicity in vivo	Species: Mou Result: negati	ve rtogenetic assay ster
Lina	lyl acetate:		
	otoxicity in vitro		icterial reverse mutation assay (AMES) D Test Guideline 471 ve
		Result: negati	vitro mammalian cell gene mutation test ve sed on data from similar materials
			rromosome aberration test in vitro D Test Guideline 473 ve
Geno	otoxicity in vivo	cytogenetic as Species: Mou Application Ro Method: OEC Result: negati	se bute: Ingestion D Test Guideline 474
	inogenicity	al la la facilita de la	
	classified based on avail ponents:	able information.	
	vrhexidine:		
Spec Appli Expc Freq NOA Resu	cies ication Route osure time uency of Treatment EL ult	: Rat : oral (drinking : 2 Years : daily : 38 mg/kg bod : negative	
Expo	ication Route osure time uency of Treatment EL	: Rat : oral (drinking : 2 Years : daily : 158 mg/kg bo : negative	

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Reproductive toxicity

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Not classified based on available information.

Components: **Ethanol:** Effects on fertility Test Type: Two-generation reproduction toxicity study Species: Mouse **Application Route: Ingestion** Result: negative **Chlorhexidine:** Effects on fertility Species: Rat : Fertility: NOAEL: 100 mg/kg body weight Effects on foetal develop-Species: Rat : Developmental Toxicity: NOAEL: 300 mg/kg body weight ment Species: Rabbit Developmental Toxicity: NOAEL: 40 mg/kg body weight Linalyl acetate: Effects on fertility : Test Type: Reproduction/Developmental toxicity screening test Species: Rat **Application Route: Ingestion Result:** negative Remarks: Based on data from similar materials Effects on foetal develop-Test Type: Embryo-foetal development : Species: Rat ment **Application Route: Ingestion** Method: OECD Test Guideline 414 **Result:** negative

STOT - single exposure

Not classified based on available information.

STOT - repeated exposure

Not classified based on available information.

Components:

Chlorhexidine:

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



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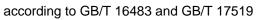
Linaly	/l acetate:						
Asses	sment		nealth effects observed in animals at concen				
Rema	rks		tions of 100 mg/kg bw or less. Based on data from similar materials				
Repea	ated dose toxicity						
<u>Comp</u>	oonents:						
Ethan	ol:						
	EL	: Rat : 1,280 mg/kg : 3,156 mg/kg : Ingestion : 90 Days					
Chlor	hexidine:						
Specie NOAE		: Rat					
	ation Route	: 158 mg/kg : Oral					
	sure time	: 2 yr					
Specie		: Rabbit					
LOAE		: 250 mg/kg : Dermal					
	ation Route	: 13 Weeks					
	t Organs	: Skin, Liver					
Linaly	/I acetate:						
Specie		: Rat					
NOAE		: > 30 - 300 mg/	kg				
	ation Route	: Ingestion : 28 Days					
Rema			from similar materials				
Specie		: Rat					
NOAE		: > 100 mg/kg					
	ation Route	: Skin contact					
Rema	sure time rks	: 91 Days : Based on data	from similar materials				

Not classified based on available information.

Experience with human exposure

Components:

Chlorhexidine:





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	eral Information lation stion	: :	Symptoms: Headache Target Organs: Lungs Symptoms: Asthmatic appearance, bronchospasm, discomfor in the chest, upper respiratory tract infection Target Organs: Gastrointestinal tract	
			Symptoms: Gastr damage	ointestinal disturbance, Gastrointestinal tract
12. ECOL	OGICAL INFORMATIO	N		
	toxicity			
	iponents:			
Etha Toxio	city to fish	:	LC50 (Pimephale Exposure time: 96	s promelas (fathead minnow)): > 1,000 mg/l ১ h
	city to daphnia and other atic invertebrates	:	EC50 (Ceriodaph Exposure time: 48	nia (water flea)): > 1,000 mg/l 3 h
Toxic plant	city to algae/aquatic ts	:	ErC50 (Chlorella Exposure time: 72	vulgaris (Fresh water algae)): 275 mg/l 2 h
			EC10 (Chlorella v Exposure time: 72	ulgaris (Fresh water algae)): 11.5 mg/l 2 h
aqua	city to daphnia and other atic invertebrates (Chron- xicity)		NOEC (Daphnia r Exposure time: 9	nagna (Water flea)): 9.6 mg/l d
	Toxicity to microorganisms	:	EC50 (Pseudomo Exposure time: 16	nas putida): 6,500 mg/l 3 h
Chlo	orhexidine:			
Τοχί	city to fish	:	(Fish): 2.088 mg/ Exposure time: 96 Method: ECOSAF ships)	
	city to daphnia and other atic invertebrates	:	Exposure time: 48	agna (Water flea)): 0.222 mg/l 3 h R (Ecological Structure Activity Relation-
Toxic plant	city to algae/aquatic ts	:	ErC50 (Pseudokii mg/l End point: Growth Exposure time: 96	



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M-Fac icity)	ctor (Acute aquatic tox-	:	1	
	ctor (Chronic aquatic y)	:	1	
Linaly	yl acetate:			
Toxici	ty to fish	:	Exposure time: 9	carpio (Carp)): 11 mg/l 96 h Test Guideline 203
	ty to daphnia and other ic invertebrates	:	Exposure time: 4 Method: OECD	magna (Water flea)): > 10 - 100 mg/l 48 h Test Guideline 202 d on data from similar materials
Toxici plants	ty to algae/aquatic	:	Exposure time: 7	esmus subspicatus (green algae)): > 100 mg 72 h d on data from similar materials
			Exposure time:	esmus subspicatus (green algae)): > 1 mg/l 72 h d on data from similar materials
Toxici	ty to microorganisms	:	EC50: > 1,000 n Exposure time: 3 Method: ISO 819	30 min
Persi	stence and degradabili	ity		
<u>Comp</u>	oonents:			
Ethan	nol:			
	gradability	:	Result: Readily Biodegradation: Exposure time: 2	84 %
Chlor	hexidine:			
Biode	gradability	:	Remarks: Not in	herently biodegradable.
Linaly	yl acetate:			
-	gradability	:	Result: Readily Biodegradation: Exposure time: 2 Method: OECD	70 - 80 %



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Bioaccumulative potential

Components:

Ethanol: Partition coefficient: n- octanol/water	: log Pow: -0.35
Chlorhexidine: Partition coefficient: n- octanol/water	: log Pow: 4.85
Linalyl acetate: Partition coefficient: n- octanol/water	: log Pow: 3.9 Method: OECD Test Guideline 107
Mobility in soil No data available Other adverse effects	

No data available

13. DISPOSAL CONSIDERATIONS

Disposal	methods
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Waste from residues	:	Do not dispose of waste into sewer. Dispose of in accordance with local regulations.
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.

14. TRANSPORT INFORMATION

International Regulations

UNRTDG		
UN number	:	UN 3082
Proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Chlorhexidine)
Class	:	9
Packing group	:	
Labels	:	9
Environmentally hazardous	:	yes
IATA-DGR		
UN/ID No.	:	UN 3082
Proper shipping name	:	Environmentally hazardous substance, liquid, n.o.s. (Chlorhexidine)
Class	:	9
Packing group	:	III



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Labels			Miscellaneous	
	g instruction (cargo	:	964	
	g instruction (passen-	:	964	
•	mentally hazardous	:	yes	
IMDG-(UN nur Proper		:	UN 3082 ENVIRONMENTA N.O.S. (Chlorhexidine)	ALLY HAZARDOUS SUBSTANCE, LIQUID,
Labels EmS C	g group ode pollutant	: :	9 III 9 F-A, S-F yes	

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

National Regulations

GB 6944/12268

UN number	:	UN 3082
Proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Chlorhexidine)
Class	:	9
Packing group	:	III
Labels	:	9
Marine pollutant	:	no

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.

15. REGULATORY INFORMATION

National regulatory information

Law on the Prevention and Control of Occupational Diseases

Regulation on the Administration of Precursor Chemicals

Catalogue and Classification of Precursor Chemicals : Not listed

Yangtze River Protection Law

This product does not contain any dangerous chemicals prohibited for inland river transport.

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

AICS : not determined



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DSL		:	not determined		
IECS	SC	:	not determined		
16. OTHER INFORMATION					
Revis	sion Date	:	2024/04/06		
Furtl	ner information				
	bile the Safety Data	:		data, data from raw material SDSs, OECD arch results and European Chemicals Agen- ropa.eu/	
Date	format	:	yyyy/mm/dd		
Full	text of other abbreviation	ons			
ACG	IH	:	USA. ACGIH Thre	eshold Limit Values (TLV)	
ACG	IH / STEL	:	Short-term expos	ure limit	

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 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; 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



according to GB/T 16483 and GB/T 17519

Chlorhexidine Formulation

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