



Version 2.2	Revision Date: 06.09.2024		S Number: 339982-00008	Date of last issue: 06.04.2024 Date of first issue: 25.08.2022
Pro	ON 1: IDENTIFICATION oduct name	:	,	79%) Formulation
Ма	Other means of identification Manufacturer or supplier's d Company			Pty Limited (trading as MSD Animal Health)
Ade	dress	:	91-105 Harpin St Bendigo 3550, V	
Tel	ephone	:	1 800 033 461	
Em	ergency telephone number	• :	Poisons Informat	ion Centre: Phone 13 11 26
E-r	nail address	:	EHSDATASTEW	/ARD@msd.com
Re	commended use of the ch commended use strictions on use	nem : :	ical and restriction Veterinary produce Not applicable	

### **SECTION 2. HAZARDS IDENTIFICATION**

GHS Classification		
Serious eye damage/eye irri- tation	:	Category 2A
GHS label elements		
Hazard pictograms	:	
Signal word	:	Warning
Hazard statements	:	H319 Causes serious eye irritation.
Precautionary statements	:	<b>Prevention:</b> P264 Wash skin thoroughly after handling. P280 Wear eye protection/ face protection. <b>Response:</b>
		P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 If eye irritation persists: Get medical advice/ at-





Version	Revision Date:	SDS Number:	Date of last issue: 06.04.2024
2.2	06.09.2024	10839982-00008	Date of first issue: 25.08.2022

tention.

# Other hazards which do not result in classification None known.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
Chlorhexidine	55-56-1	< 10
Nonylphenol, ethoxylated	9016-45-9	>= 1 -< 3

### **SECTION 4. 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.
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.
In case of eye contact	:	Get medical attention if symptoms occur. 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.
If swallowed	:	If swallowed, DO NOT induce vomiting. Get medical attention if symptoms occur. Rinse mouth thoroughly with water.
Most important symptoms and effects, both acute and delayed	:	Causes serious eye irritation.
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. FIREFIGHTING MEASURES**

Suitable extinguishing media	:	Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical
Unsuitable extinguishing media	:	None known.
Specific hazards during fire-	:	Exposure to combustion products may be a hazard to health.





Version 2.2	Revision Date: 06.09.2024	-	DS Number: 839982-00008	Date of last issue: 06.04.2024 Date of first issue: 25.08.2022
fight	ing			
Haza ucts	ardous combustion prod-	:	Carbon oxides	
Spec ods	cific extinguishing meth-	:	cumstances and t Use water spray t	measures that are appropriate to local cir- the surrounding environment. to cool unopened containers. ged containers from fire area if it is safe to do
	cial protective equipment refighters	:		e, wear self-contained breathing apparatus. tective equipment.
Hazo	chem Code	:	•3Z	
SECTION	16. ACCIDENTAL RELE	AS	E MEASURES	
tive e	onal precautions, protec- equipment and emer- cy procedures	:	Follow safe hand	tective equipment. ing advice (see section 7) and personal pro- t recommendations (see section 8).
Envi	ronmental precautions	:	Prevent spreading barriers).	he environment. akage or spillage if safe to do so. g over a wide area (e.g. by containment or oil

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 dyking or other appropriate contain- ment to keep material from spreading. If dyked material can be pumped, store recovered material in appropriate container. Clean up remaining materials from spill with suitable absor- bent. Local or national regulations may apply to releases and dis- posal of this material, as well as those materials and items omployed in the cleanup of releases. You will need to deter
		employed in the cleanup of releases. You will need to deter- mine which regulations are applicable. Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.

### SECTION 7. HANDLING AND STORAGE

Technical measures	:	See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.
Local/Total ventilation Advice on safe handling		Use only with adequate ventilation. Do not breathe mist or vapours.



Version Revision Date: 2.2 06.09.2024	SDS Number: 10839982-00008	Date of last issue: 06.04.2024 Date of first issue: 25.08.2022
Hygiene measures	Wash skin tho Handle in acco practice, base sessment Take care to p environment. If exposure to flushing system place. When using de Wash contame The effective of engineering co appropriate de industrial hygi	
Conditions for safe storage Materials to avoid	Store in accor	rly labelled containers. dance with the particular national regulations. /ith the following product types: ng agents

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters

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

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 con- tainment devices). Minimize open handling.

### Personal protective equipment

Respiratory protection	:	If adequate local exhaust ventilation is not available or expo-
		sure assessment demonstrates exposures outside the rec-
		ommended guidelines, use respiratory protection.



Version 2.2	Revision Date: 06.09.2024	•••	DS Number: 0839982-00008	Date of last issue: 06.04.2024 Date of first issue: 25.08.2022			
	Iter type I protection	:	Particulates type				
Material		:	: Chemical-resistant gloves				
Remarks Eye protection Skin and body protection		:	Consider double gloving. Wear safety glasses with side shields or goggles. If the work environment or activity involves dusty condition 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. Work uniform or laboratory coat. Additional body garments should be used based upon the				
			posable suits) to	med (e.g., sleevelets, apron, gauntlets, dis- avoid exposed skin surfaces. degowning techniques to remove potentially thing.			

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	Aqueous solution
Colour	:	blue
Odour	:	No data available
Odour Threshold	:	No data available
рН	:	5.55 - 6.65 (20 °C)
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
Vapour pressure	:	No data available
Relative vapour density	:	No data available





Version 2.2	Revision Date: 06.09.2024	-	S Number: 839982-00008	Date of last issue: 06.04.2024 Date of first issue: 25.08.2022
Re	lative density		1.010 - 1.020	
	nsity	:	No data available	e
	lubility(ies) Water solubility	:	No data available	e
	rtition coefficient: n- anol/water	:	Not applicable	
	to-ignition temperature	:	No data available	9
De	composition temperature	:	No data available	9
	cosity Viscosity, kinematic	:	No data available	9
Ex	plosive properties	:	Not explosive	
Ox	idizing properties	:	The substance o	r mixture is not classified as oxidizing.
Мо	lecular weight	:	No data available	9
	rticle characteristics rticle size	:	Not applicable	

### 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

Exposure routes	: Inhalation
	Skin contact
	Ingestion
	Eye contact

### Acute toxicity

Not classified based on available information.

### Product:

Acute oral toxicity	:	Acute toxicity estimate: > 2,000 mg/kg
		Method: Calculation method



ersion 2	Revision Date: 06.09.2024		S Number: 839982-00008	Date of last issue: 06.04.2024 Date of first issue: 25.08.2022	
Comr	oonents:				
	hexidine: oral toxicity	:	LD50 Oral (Mous	e): 1 260 ma/ka	
nouto		•			
			LD50 Oral (Rabb	it): 1,100 mg/kg	
			LD50 Oral (Rat):	2,000 mg/kg	
	toxicity (other routes of histration)	:	LD50 (Rat): 21 m Application Route		
Nonv	Iphenol, ethoxylated:				
-	oral toxicity	:	LD50 (Rat): 500 ·	- 2,000 mg/kg	
	corrosion/irritation assified based on availa	ble	information.		
	oonents:				
	Iphenol, ethoxylated:				
Speci	es	:	Rabbit		
Metho Resul		:	OECD Test Guid No skin irritation	eline 404	
	us eye damage/eye irri	tati	on		
	es serious eye irritation.				
	oonents:				
	hexidine:		Dabbit		
Speci Resul		:	Rabbit Mild eye irritation		
-	Iphenol, ethoxylated:				
Speci Resul		÷	Rabbit Irreversible effect	ts on the eve	
Metho		:	OECD Test Guid		
Resp	iratory or skin sensitis	atic	n		
Skin	sensitisation				
Not cl	assified based on availa	ble	information.		
Respiratory sensitisation					
Not cl	assified based on availa	ble	information.		



ersion 2	Revision Date: 06.09.2024		9S Number: 839982-00008	Date of last issue: 06.04.2024 Date of first issue: 25.08.2022
<b>Nony</b> Test T		:	Maximisation Tes	st
Expos Specio Resul Rema	t	:	Skin contact Guinea pig negative Based on data fro	om similar materials
Chror	nic toxicity			
Germ	cell mutagenicity			
Not cl	assified based on avail	able	information.	
<u>Comp</u>	oonents:			
Chlor	hexidine:			
Genot	toxicity in vitro	:	Test Type: Bacte Result: negative	rial reverse mutation assay (AMES
				nosomal aberration nese hamster ovary cells
Genot	toxicity in vivo	:	Test Type: domin Species: Mouse Result: negative	ant lethal test
			Test Type: Cytog Species: Hamste Result: negative	
Nony	Iphenol, ethoxylated:			
Genot	toxicity in vitro	:	Result: negative	rial reverse mutation assay (AMES on data from similar materials
			- temano: Bubbu	
	nogenicity			
	assified based on avail	able	information.	
Not cl	onents:			
Not cli <u>Comp</u>	Jonenta.			
Comp	hexidine:			
Comp Chlor Specie	hexidine: es	:	Rat	
Comp Chlor Specie Applic	<b>hexidine:</b> es ation Route	:	oral (drinking wat	er)
Comp Chlor Specie Applic Expos	hexidine: es	:		er)
Comp Chlor Specie Applic Expos	hexidine: es cation Route sure time ency of Treatment EL		oral (drinking wat 2 Years	





	Version 2.2	Revision Date: 06.09.2024	SDS Number: 10839982-00008		Date of last issue: 06.04.2024 Date of first issue: 25.08.2022
	Expos		:	oral (drinking wat 2 Years daily 158 mg/kg body v negative	
<b>Reproductive toxicity</b> Not classified based on availab		able	information.		
	Comp	onents:			
Chlorhexidine: Effects on fertility		:	Species: Rat Fertility: NOAEL:	100 mg/kg body weight	
	Effects ment	s on foetal develop-	:		oxicity: NOAEL: 300 mg/kg body weight
				On a size . Dabbit	

Species: Rabbit Developmental Toxicity: NOAEL: 40 mg/kg body weight

### 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.

### **Repeated dose toxicity**

#### **Components:**

#### Chlorhexidine:

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





ersion 2	Revision Date: 06.09.2024		OS Number: 839982-00008	Date of last issue: 06.04.2024 Date of first issue: 25.08.2022	
-	ration toxicity lassified based on availa	ble	information.		
Expe	rience with human exp	osi	ıre		
Com	ponents:				
Chlo	rhexidine:				
Gene Inhala	ral Information ation	:	Target Organs: I Symptoms: Asth	Symptoms: Headache Target Organs: Lungs Symptoms: Asthmatic appearance, bronchospasm, discom	
Ingestion		:	in the chest, upper respiratory tract infection Target Organs: Gastrointestinal tract Symptoms: Gastrointestinal disturbance, Gastrointestinal trac damage		
CTION	12. ECOLOGICAL INFO	ORM	MATION		
Ecoto	oxicity				
<u>Com</u>	ponents:				
Chlo	rhexidine:				
Toxic	ity to fish	:	(Fish): 2.088 mg Exposure time: 9 Method: ECOSA ships)		
Toxic	ity to daphnia and other	:	EC50 (Daphnia	magna (Water flea)): 0.222 mg/l	
aquat	tic invertebrates		Exposure time: 4 Method: ECOSA ships)	48 h \R (Ecological Structure Activity Relation-	
Toxicity to algae/aquatic : plants		ErC50 (Pseudok mg/l End point: Grow Exposure time: 9			
			Method: ECOSA ships)	R (Ecological Structure Activity Relation-	
Nonv	Iphenol, ethoxylated:				
-	ity to fish	:	Exposure time: 9	es promelas (fathead minnow)): > 0.1 - 1 m 96 h 1 on data from similar materials	
	ity to daphnia and other tic 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		

mg/l Exposure time: 72 h





rsion 2	Revision Date: 06.09.2024	-	0S Number: 839982-00008	Date of last issue: 06.04.2024 Date of first issue: 25.08.2022
icity) Toxici	ty to fish (Chronic tox- ty to daphnia and other ic invertebrates (Chron- city)	:	Remarks: Based EC10 (Selenastr Exposure time: 7 Method: OECD Remarks: Based NOEC (Oryzias I Exposure time: 1 Remarks: Based	Test Guideline 201 on data from similar materials atipes (Japanese medaka)): > 0.1 - 1 mg/l 00 d on data from similar materials sis bahia (opossum shrimp)): > 0.001 - 0.07
Persistence and degradabili				on data from similar materials
<u>Components:</u>				
	hexidine:			
	gradability	:	Remarks: Not inl	nerently biodegradable.
-	<b>Nonylphenol, ethoxylated:</b> Biodegradability		Result: Not readily biodegradable. Remarks: Based on data from similar materials	
Bioad	cumulative potential			
<u>Comp</u>	oonents:			
Partiti	<b>hexidine:</b> on coefficient: n- ol/water	:	log Pow: 4.85	
<b>Nonylphenol, ethoxylated:</b> Partition coefficient: n- octanol/water		:	log Pow: 4.48	
	ity in soil			
	ta available • <b>adverse effects</b>			
No da	ta available			

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



Class

Packing group



/ersion 2.2	Revision Date: 06.09.2024		OS Number: 839982-00008	Date of last issue: 06.04.2024 Date of first issue: 25.08.2022
Conta	aminated packaging	:	dling site for rec	rs should be taken to an approved waste han ycling or disposal. specified: Dispose of as unused product.
ECTION	14. TRANSPORT INFO	ORM	ATION	
Interi	national Regulations			
UNR	TDG			
	umber er shipping name	:	N.O.S.	TALLY HAZARDOUS SUBSTANCE, LIQUID
Class		:	9	
	ng group	÷		
Label Envir	s onmentally hazardous	÷	9 ves	
IATA	-	•	,	
		:	UN 3082	
Prope	er shipping name	:	Environmentally (Chlorhexidine,	hazardous substance, liquid, n.o.s. Nonylphenol, ethoxylated)
Class		:	9 III	
Label	ng group	•	III Miscellaneous	
Packi aircra	ng instruction (cargo ft)	:	964	
ger ai	ng instruction (passen- ircraft)	:	964	
Envir	onmentally hazardous	:	yes	
IMDG	G-Code			
	umber er shipping name	:	UN 3082 ENVIRONMENT N.O.S.	FALLY HAZARDOUS SUBSTANCE, LIQUID
				Nonylphenol, ethoxylated)
Class		:	9	
Packi Label	ng group	÷	 9	
EmS	-	:	9 F-A, S-F	
	e pollutant	:	yes	
	sport in bulk according	-		POL 73/78 and the IBC Code
	nal Regulations	•		
	U			
ADG UN ni	umber	•	UN 3082	
	er shipping name	:		TALLY HAZARDOUS SUBSTANCE, LIQUID





Version	Revision Date:	SDS Number:	Date of last issue: 06.04.2024
2.2	06.09.2024	10839982-00008	Date of first issue: 25.08.2022

Labels	:	9
Hazchem Code	:	•3Z
Environmentally hazardous	:	yes

#### 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.

### **SECTION 15. REGULATORY INFORMATION**

Safety, health and environn ture	nen	tal regulations/legislatio	n specific for the substance or mix-		
Therapeutic Goods (Poisons Standard) Instrument	:		the original publication to check for onditions or threshold limits that might		
Prohibition/Licensing Requiremer		nts :	There is no applicable prohibition, authorisation and restricted use requirements, including for carcino- gens referred to in Schedule 10 of the model WHS Act and Regula- tions.		
The components of this product are reported in the following inventories:					
AICS	:	not determined			
DSL	:	not determined			

IECSC : not determined

### SECTION 16: ANY OTHER RELEVANT INFORMATION

### Further information

Revision Date Sources of key data used to compile the Safety Data Sheet	:	06.09.2024 Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agen- cy, http://echa.europa.eu/
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-



Version	Revision Date:	SDS Number:	Date of last issue: 06.04.2024
2.2	06.09.2024	10839982-00008	Date of first issue: 25.08.2022

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

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.

AU / EN