



Vers 2.7	sion	Revision Date: 28.09.2024		S Number: 6010-00018	Date of last issue: 06.04.2024 Date of first issue: 11.09.2017
SEC	TION 1 Produc	: IDENTIFICATION t name	:	Gentamicin / Clo	xacillin Formulation
	Manufa	acturer or supplier's d	letai	ls	
	Compa		:		Pty Limited (trading as MSD Animal Health)
	Addres	S	:	91-105 Harpin St Bendigo 3550, V	
	Teleph	one	:	1 800 033 461	
	Emerge	ency telephone number	· :	Poisons Informat	ion Centre: Phone 13 11 26
	E-mail	address	:	EHSDATASTEW	/ARD@msd.com
	Recommended use of the ch		nem	ical and restrictio	ons on use
		mended use tions on use	:	Veterinary produce Not applicable	ct

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification Respiratory sensitisation	Category 1
Skin sensitisation	Category 1
Reproductive toxicity	Category 1A
GHS label elements	
Hazard pictograms	
Signal word	Danger
Hazard statements	H317 May cause an allergic skin reaction. H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. H360D May damage the unborn child.
Precautionary statements	Prevention: P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P261 Avoid breathing mist or vapours.



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		the workplace. P280 Wear pro tion/ face prote	otective gloves/ protective clothing/ eye protec-
		P304 + P340 I keep comforta P308 + P313 I attention. P333 + P313 I vice/ attention.	f experiencing respiratory symptoms: Call a
		Storage: P405 Store loo	cked up.
		Disposal:	of contents/ container to an approved waste
	r hazards which do i known.	not result in classifica	ation
SECTION	3. COMPOSITION/IN	NFORMATION ON ING	REDIENTS
	tance / Mixture ponents	: Mixture	

••••••			
Chemical name	CAS-No.	Concentration (% w/w)	
Peanut oil	8002-03-7	90 -95	
1,2,3-Propanetriyl tris(12- hydroxyoctadecanoate)	139-44-6	3.5	
cloxacillin	61-72-3	2.2	
Gentamicin	1403-66-3	0.5	

SECTION 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. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
In case of skin contact	 In case of contact, immediately flush skin with soap and plenty of water.



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		Get medical at Wash clothing	
In ca	se of eye contact	: Flush eyes wit	h water as a precaution.
If swallowed		: If swallowed, I Get medical at	tention if irritation develops and persists. DO NOT induce vomiting. tention. horoughly with water.
	important symptoms effects, both acute and red	: May cause an May cause alle ties if inhaled. May damage t Excessive exp other respirato	allergic skin reaction. ergy or asthma symptoms or breathing difficul- he unborn child. osure may aggravate preexisting asthma and ry disorders (e.g. emphysema, bronchitis, reac rsfunction syndrome).
Prote	ection of first-aiders	: First Aid respo and use the re	nders should pay attention to self-protection, commended personal protective equipment ntial for exposure exists (see section 8).
Notes	s to physician		natically and supportively.
SECTION 5. FIREFIGHTING MEA		SURES	
		: Water spray Alcohol-resista Carbon dioxide	

		Dry chemical
Unsuitable extinguishing media	:	None known.
Specific hazards during fire- fighting	:	Exposure to combustion products may be a hazard to health.
Hazardous combustion prod- ucts	:	Carbon oxides Chlorine compounds Nitrogen oxides (NOx) Sulphur compounds
Specific extinguishing meth- ods	:	Use extinguishing measures that are appropriate to local cir- cumstances and the surrounding environment. Use water spray to cool unopened containers. Remove undamaged containers from fire area if it is safe to do so. Evacuate area.
Special protective equipment for firefighters	:	In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.
Hazchem Code	:	•3Z

SECTION 6. ACCIDENTAL RELEASE MEASURES



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tive ec	nal precautions, protec- juipment and emer- procedures	:	Follow safe handl	tective equipment. ing advice (see section 7) and personal pro t recommendations (see section 8).
Environmental precautions		:	Prevent spreading barriers). Retain and dispos	akage or spillage if safe to do so. g over a wide area (e.g. by containment or c se of contaminated wash water. should be advised if significant spillages
	ds and materials for nment and cleaning up	:	For large spills, pr ment to keep mat be pumped, store Clean up remainin bent. Local or national n posal of this mate employed in the o mine which regula Sections 13 and 1	t absorbent material. rovide dyking or other appropriate contain- erial from spreading. If dyked material can recovered material in appropriate containe ng materials from spill with suitable absor- regulations may apply to releases and dis- erial, as well as those materials and items cleanup of releases. You will need to deter- ations are applicable. IS of this SDS provide information regarding tional requirements.

Technical measures Local/Total ventilation	 See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section. If sufficient ventilation is unavailable, use with local exhaust ventilation.
Advice on safe handling	 Do not get on skin or clothing. Do not breathe mist or vapours. Do not swallow. Avoid contact with eyes. Handle in accordance with good industrial hygiene and safety
	 practice, based on the results of the workplace exposure assessment Keep container tightly closed. Already sensitised individuals, and those susceptible to asthma, allergies, chronic or recurrent respiratory disease, should consult their physician regarding working with respiratory irritants or sensitisers. 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.



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	tions for safe storage ials to avoid	The effective op engineering cor appropriate deg industrial hygier use of administr Keep in properly Store locked up Keep tightly clos Store in accords	y labelled containers. sed. ance with the particular national regulations. h the following product types:

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Peanut oil	8002-03-7	TWA (Mist)	10 mg/m3	AU OEL
1,2,3-Propanetriyl tris(12- hydroxyoctadecanoate)	139-44-6	TWA	10 mg/m3	AU OEL
		TWA (Inhal- able particu- late matter)	10 mg/m3	ACGIH
		TWA (Res- pirable par- ticulate mat- ter)	3 mg/m3	ACGIH
cloxacillin	61-72-3	TWA	100 µg/m3 (OEB 2)	Internal
	Further inform	nation: RSEN, DS	SEN	
		Wipe limit	100 µg/100 cm2	Internal
Gentamicin	1403-66-3	TWA	0.1 mg/m3 (OEB 2)	Internal
	Further information: OTO			

Components with workplace control parameters

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. Laboratory operations do not require special containment.
Personal protective equipment	t i i i i i i i i i i i i i i i i i i i
Respiratory protection :	If adequate local exhaust ventilation is not available or expo- sure assessment demonstrates exposures outside the rec- ommended guidelines, use respiratory protection.
Filter type :	Combined particulates and organic vapour type



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	l protection aterial	:	Chemical-resista	ant gloves	
Eye ç	Eye 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		
Skin	and body protection	:	aerosols. Work uniform or	laboratory coat.	
SECTION	9. PHYSICAL AND CH	ΞΜΙ	CAL PROPERTI	ES	
Appe	arance	:	suspension		
Colou	ur	:	white		
Odou	ır	:	No data availab	le	
Odou	ır Threshold	:	No data availab	le	
рН		:	No data availab	le	
Melti	ng point/freezing point	:	No data availab	le	
Initial range	boiling point and boiling	:	No data availab	le	
Flash	n point	:	No data availab	le	
Evap	oration rate	:	No data availab	le	
Flam	mability (solid, gas)	:	Not applicable		
Flam	mability (liquids)	:	No data availab	le	
	er explosion limit / Upper nability limit	:	No data availab	le	
	er explosion limit / Lower nability limit	:	No data availab	le	
Vapo	our pressure	:	No data availab	le	
Relat	ive vapour density	:	No data availab	le	
Relat	ive density	:	No data availab	le	
Dens	ity	:	No data availab	le	
	bility(ies) /ater solubility	:	No data availab	le	



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	Partitior	n coefficient: n- /water	:	Not applicable	
		nition temperature	:	No data available	9
C	Decomp	position temperature	:	No data available	9
V	/iscosit Visco	y osity, kinematic	:	No data available	
E	Explosiv	ve properties	:	Not explosive	
C	Dxidizin	g properties	:	The substance o	r mixture is not classified as oxidizing.
	Particle Particle	characteristics size	:	Not applicable	
SECT). STABILITY AND RE	EAC	ΤΙVITY	
	Reactivi		:		a reactivity hazard.
F	Possibil	al stability ity of hazardous reac-	:	Stable under nor Can react with st	mal conditions. rong oxidizing agents.
C Ir	ncompa	ons to avoid atible materials ous decomposition	:	None known. Oxidizing agents No hazardous de	composition products are known.
р	product	S			
SECT	ION 1 1	I. TOXICOLOGICAL I	NFC	RMATION	
E	Exposu	re routes	:	Inhalation Skin contact Ingestion Eye contact	
		oxicity sified based on availa	ble i	nformation.	
<u>c</u>	Compo	nents:			
F	Peanut	oil:			
Δ	Acute o	ral toxicity	:	LD50 (Rat): > 2,00 Method: OECD To Remarks: Based o	
Δ	Acute d	ermal toxicity	:	LD50 (Rat): > 2,00 Remarks: Based o	00 mg/kg on data from similar materials
1	,2,3-Pı	ropanetriyl tris(12-hy	dro>	(yoctadecanoate)):
Δ	Acute o	ral toxicity	:	LD50 (Rat): > 5,00 Remarks: Based o	00 mg/kg on data from similar materials

SAFETY DATA SHEET



Versi 2.7	-	Revision Date: 28.09.2024		9S Number: 36010-00018	Date of last issue: 06.04.2024 Date of first issue: 11.09.2017
	Acute de	ermal toxicity	:	LD50 (Rat): > 2,00 Remarks: Based o	00 mg/kg on data from similar materials
	cloxacil	llin:			
	Acute or	al toxicity	:	LD50 (Rat): 5,000	mg/kg
				LD50 (Mouse): 5,0	000 mg/kg
	Acute to administ	xicity (other routes of tration)	:	LD50 (Mouse): 1, Application Route:	
				LD50 (Mouse): 91 Application Route:	
				LD50 (Mouse): 1,5 Application Route:	
				LD50 (Rat): 1,660 Application Route:	
				LD50 (Rat): 4,200 Application Route:	
	Gentam	licin:			
	Acute or	al toxicity	:	LD50 (Rat): 8,000	- 10,000 mg/kg
				LD50 (Mouse): 10	,000 mg/kg
	Acute in	halation toxicity	:	LC50 (Rat): > 0.2	
				Exposure time: 4 I Test atmosphere:	
					tality observed at this dose.
	Acute to administ	xicity (other routes of tration)	:	LD50 (Rat): 67 - 9 Application Route:	
				LD50 (Rat): 371 - Application Route:	
				LDLo (Monkey): 3 Application Route:	
		rrosion/irritation sified based on availal	ble	information.	
	Compoi		-		
-	Peanut				
	Species		:	Rabbit	
	Result		:	No skin irritation	
	Remark	S	:	Based on data fro	m similar materials



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1,2,3-	-Propanetriyl tris(12-	-hydro	oxyoctadecanoat	te):
Speci		:	Rabbit	
Resu Rema		:	No skin irritation	n From similar materials
Reille			Dased off data i	
cloxa	cillin:			
Rema	arks	:	Not classified du	ue to lack of data.
Genta	amicin:			
Speci		:	Rabbit	
Resu	lt	:	Mild skin irritatio	on
Serio	ous eye damage/eye	irritati	ion	
Not c	lassified based on ava	ailable	information.	
<u>Com</u>	ponents:			
	ut oil:			
Speci		:	Rabbit	
Resu Rema		:	No eye irritation	rom similar materials
Speci		-hydro	Rabbit	
Resu Rema			No eye irritation Based on data f	rom similar materials
Kenic		•	Dased on data i	
cloxa	acillin:			
Rema	arks	:	Not classified du	ue to lack of data.
Genta	amicin:			
Speci		:	Rabbit	
Resu	lt	:	Mild eye irritatio	n
Resp	iratory or skin sensi	itisatio	on	
Skin	sensitisation			
-	cause an allergic skin	reacti	on.	
Resp	iratory sensitisation	1		
May o	cause allergy or asthn	na syn	nptoms or breathin	ng difficulties if inhaled.
<u>Com</u>	ponents:			
cloxa	cillin:			
Expo	sure routes	:	Dermal	
	ssment	:	Probability or ev	vidence of skin sensitisation in humans



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_		_				
Resu	ılt	:	positive			
Asse	Assessment		: Probability of respiratory sensitisation in humans bas			
Resu	ılt	:	animal testing positive			
	amicin:					
Rem	arks	:	No data availab	le		
Chro	nic toxicity					
	n cell mutagenicity classified based on a	vailahla	information			
	ponents:	valiable	information.			
Pean	nut oil:					
Geno	otoxicity in vitro	:	Test Type: Bact Result: negative	erial reverse mutation assay (AMES)		
1,2,3	-Propanetriyl tris(1	2-hydro	xyoctadecanoa	:e):		
Geno	otoxicity in vitro	:	Method: OECD Result: negative	erial reverse mutation assay (AMES) Test Guideline 471 e d on data from similar materials		
			Nemaiks. Dase	d on data nom sinniar materials		
	acillin:					
	acillin: otoxicity in vitro	:	Test Type: Bac Result: negative	erial reverse mutation assay (AMES) anation given is based on data obtained from		
Gend		:	Test Type: Bact Result: negative Remarks: Inforr similar substand Test Type: Micr	erial reverse mutation assay (AMES) enation given is based on data obtained from ces. onucleus test		
Gend	otoxicity in vitro	:	Test Type: Bac Result: negative Remarks: Inforr similar substand Test Type: Micr Species: Mouse Result: negative	erial reverse mutation assay (AMES) anation given is based on data obtained from ces. onucleus test anation given is based on data obtained from		
Genc	otoxicity in vitro	:	Test Type: Bact Result: negative Remarks: Inforr similar substand Test Type: Micr Species: Mouse Result: negative Remarks: Inforr	erial reverse mutation assay (AMES) anation given is based on data obtained from ces. onucleus test anation given is based on data obtained from		
Genc	otoxicity in vitro	:	Test Type: Bact Result: negative Remarks: Inforr similar substand Test Type: Micr Species: Mouse Result: negative Remarks: Inforr similar substand	erial reverse mutation assay (AMES) nation given is based on data obtained from ces. onucleus test nation given is based on data obtained from ces.		
Genc	otoxicity in vitro otoxicity in vivo	:	Test Type: Bact Result: negative Remarks: Inforr similar substand Test Type: Micr Species: Mouse Result: negative Remarks: Inforr similar substand Test Type: In vi Result: negative	erial reverse mutation assay (AMES) enation given is based on data obtained from ces. onucleus test enation given is based on data obtained from ces. tro mammalian cell gene mutation test enosome aberration test in vitro		



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			Result: negative	
	cinogenicity classified based on availa	ble	information.	
<u>Cor</u>	nponents:			
	xacillin: narks	:	Not classified due	to lack of data.
	ntamicin: cinogenicity - Assess- nt	:	No data available	
•	productive toxicity / damage the unborn child			
<u>Cor</u>	nponents:			
	xacillin: ects on fertility	:		
Effe mer	ects on foetal develop- nt	:		-
Ger	ntamicin:			
Effe	ects on fertility	:	Species: Rat Fertility: NOAEL: 2	eneration reproduction toxicity study 20 mg/kg body weight ant adverse effects were reported
Effe mer	ects on foetal develop- nt	:	Species: Rabbit	o-foetal development xicity: NOAEL: 3.6 mg/kg body weight p-foetal toxicity
			Test Type: Embry	o-foetal development



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				Species: Rat Application Route Developmental To Result: Embryo-fo Test Type: Embry Species: Mouse Application Route Developmental To Result: foetal mor	: Intraperitoneal oxicity: LOAEL: 75 mg/kg body weight oetal toxicity ro-foetal development
				Application Route Developmental Te	: Intraperitoneal oxicity: LOAEL: 50 mg/kg body weight tality, No malformations were observed.
	Reprodu sessmer	ictive toxicity - As- nt	:	Positive evidence human epidemiol	of adverse effects on development from ogical studies.
N S N <u>C</u>	Not clas STOT -				
Г	Target C Assessn	Organs	:	Kidney, inner ear Causes damage t exposure.	o organs through prolonged or repeated
F	Repeate	ed dose toxicity			
<u>c</u>	Compoi	nents:			
S L A E	cloxacil Species LOAEL Applicati Exposur Symptor	ion Route e time		Rat 7,000 mg/kg Intravenous 4 Weeks Hypoglycemia	
S L A E T	Gentam Species LOAEL Applicati Exposur Target C Symptor	ion Route e time Drgans		Dog 3 mg/kg Intramuscular 12 Months Kidney Vomiting, Salivati	on



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Speci		: Monkey	
LOAE		: 50 mg/kg	
	cation Route	: Subcutaneous	
	sure time et Organs	: 3 Weeks : Kidney, inner ea	ar
raige	at Organs	. Ridney, inner ea	
Speci		: Monkey	
LOAE		: 6 mg/kg	
	cation Route sure time	: Intramuscular : 3 Weeks	
	et Organs	: Blood, Kidney, i	nner ear Liver
rarge	a organs	. Dioba, Riancy, i	
Speci		: Rat	
NOAE		: 5 mg/kg	
LOAE		: 10 mg/kg	
	cation Route sure time	: Intramuscular : 52 Weeks	
	et Organs	: Kidney, Blood	
Speci		: Rat	
NOAE		: 12.5 mg/kg	
LOAE	cation Route	: 50 mg/kg : Intramuscular	
	sure time	: 13 Weeks	
	et Organs	: Kidney	
-	ation toxicity		
Not cl	assified based on av	allable information.	
-	rience with human e	exposure	
-	oonents:		
	cillin:		
Inhala			cause sensitisation of susceptible persons
Skind	contact	: Symptoms: Der Remarks: May i	
Eye c	ontact	: Remarks: May i	
Inges			v cause, Gastrointestinal disturbance, Ra
		Remarks: May o	cause sensitisation of susceptible person
Genta	amicin:		
Gent a Inges		: Target Organs:	
		Target Organs:	inner ear
		Target Organs:	



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SECTION	12. ECOLOGICAL II	NFORMATION	
Feet			
ECOT	oxicity		
Com	ponents:		

Peanut oil:

Toxicity to fish	:	LC50 (Danio rerio (zebra fish)): > 10,000 mg/l Exposure time: 96 h Remarks: Based on data from similar materials
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): > 100 mg/l Exposure time: 48 h

Remarks: Based on data from similar materials

1,2,3-Propanetriyl tris(12-hydroxyoctadecanoate):

Toxicity to fish	:	LC50 (Danio rerio (zebra fish)): > 100 mg/l Exposure time: 96 h Remarks: Based on data from similar materials
Toxicity to daphnia and other aquatic invertebrates	:	EL50 (Daphnia magna (Water flea)): > 100 mg/l Exposure time: 48 h Test substance: Water Accommodated Fraction Method: Directive 67/548/EEC, Annex V, C.2. Remarks: Based on data from similar materials
Toxicity to algae/aquatic plants	:	EL50 (Desmodesmus subspicatus (green algae)): > 100 mg/l Exposure time: 72 h Test substance: Water Accommodated Fraction Method: Directive 67/548/EEC, Annex V, C.3. Remarks: Based on data from similar materials
Gentamicin:		
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 86 mg/l Exposure time: 48 h Method: OECD Test Guideline 202
		LC50 (Americamysis): 30 mg/l Exposure time: 96 h Method: US-EPA OPPTS 850.1035
Toxicity to algae/aquatic plants	:	EC50 (Pseudokirchneriella subcapitata (green algae)): 10 μg/l Exposure time: 72 h Method: OECD Test Guideline 201
		NOEC (Pseudokirchneriella subcapitata (green algae)): 1.5 μg/l Exposure time: 72 h Method: OECD Test Guideline 201



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			Exposure time:	na flos-aquae (cyanobacterium)): 4.7 μg/l 72 h Test Guideline 201
			Exposure time:	ena flos-aquae (cyanobacterium)): 1.6 μg/l 72 h Test Guideline 201
Toxici	ty to microorganisms	:		
Persi	stence and degradab	ility		
Comp	oonents:			
Genta	amicin:			
Biode	gradability	:	Result: rapidly o Biodegradation Exposure time: Method: OECD	: 100 %
Bioad	cumulative potential			
Comp	oonents:			
Partiti	cillin: on coefficient: n- ol/water	:	log Pow: 2.44	
Genta	amicin:			
Partiti	on coefficient: n- ol/water	:	log Pow: < -2	
	ity in soil ta available			
Other	adverse effects			
No da	ta available			

Disposal methods		
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.



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SECTION 14. TRANSPORT INFORMATION

International Regulations

UNRTDG		
UN number	:	UN 3082
Proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Gentamicin)
Class	:	9
Packing group	:	III
Labels	:	9
Environmentally hazardous	:	yes
IATA-DGR		
UN/ID No.	:	UN 3082
Proper shipping name	:	Environmentally hazardous substance, liquid, n.o.s. (Gentamicin)
Class	:	9
Packing group	:	III
Labels	:	Miscellaneous
Packing instruction (cargo aircraft)	:	964
Packing instruction (passen- ger aircraft)	:	964
Environmentally hazardous	:	yes
IMDG-Code		
UN number	:	UN 3082
Proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Class		(Gentamicin)
Class	÷	9
Packing group Labels	:	
	:	9
EmS Code	:	F-A, S-F
Marine pollutant	·	yes

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

Not applicable for product as supplied.

National Regulations

ADG UN number Proper shipping name	:	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Gentamicin)
Class	:	9
Packing group	:	III
Labels	:	9
Hazchem Code	:	•3Z
Environmentally hazardous	:	yes



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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 environmen ture	tal regulations/legislatio	on 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 Requireme	ints :	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	:	28.09.2024 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			
ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)	
AU OEL	:	Australia. Workplace Exposure Standards for Airborne Con- taminants.	
ACGIH / TWA AU OEL / TWA	:	8-hour, time-weighted average Exposure standard - time weighted average	

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;



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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

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.

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