



Vers 6.0	ion	Revision Date: 06.07.2024		S Number: 23964-00007		ue: 30.09.2023 ue: 12.11.2021
Sect	tion 1: le	dentification				
	Product	name	:	Enrofloxacin Liqu	id Formulation	
	Manufa	cturer or supplier's d	letai	ls		
	Compa	ny	:	MSD		
	Address	6	:	33 Whakatiki Stre Upper Hutt - New	•	908
	Telepho	one	:	0800 800 543		
	Emerge	ency telephone number	• :	0800 764 766 (08 CHEMCALL)	300 POISON)	0800 243 622 (0800
	E-mail a	address	:	EHSDATASTEW	ARD@msd.con	ı
	Recom	mended use of the ch	nem	ical and restriction	ons on use	
		mended use ions on use	:	Veterinary produ	ct	

Section 2: Hazard identification

GHS Classification		Cotogon 2
Skin corrosion/irritation	·	Category 2
Serious eye damage/eye irri- tation	:	Category 2
Skin sensitisation	:	Category 1
Reproductive toxicity	:	Category 2
Specific target organ toxicity - repeated exposure	:	Category 2 (cartilage, Testis)
Hazardous to the aquatic environment - acute hazard	:	Category 1
Hazardous to the aquatic environment - chronic hazard	:	Category 1

GHS label elements

SAFETY DATA SHEET



Enrofloxacin Liquid Formulation

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Hazar	rd pictograms		
Signa	l word	: Warning	
Hazar	rd statements	H319 Causes s H361f Suspect H373 May caus prolonged or re	skin irritation. se an allergic skin reaction. serious eye irritation. ed of damaging fertility. se damage to organs (cartilage, Testis) through speated exposure. c to aquatic life with long lasting effects.
Preca	autionary statements	P202 Do not ha and understood P260 Do not bu P264 Wash ski P272 Contamir the workplace. P273 Avoid rel	eathe mist or vapours. n thoroughly after handling. nated work clothing should not be allowed out o ease to the environment. tective gloves/ protective clothing/ eye protec-
		P305 + P351 + for several min easy to do. Cor P308 + P313 If attention. P333 + P313 If vice/ attention.	exposed or concerned: Get medical advice/ skin irritation or rash occurs: Get medical ad- eye irritation persists: Get medical advice/ at-
		Storage: P405 Store loc	ked up.
		Disposal:	of contents/ container to an approved waste

Other hazards which do not result in classification

May form explosive dust-air mixture during processing, handling or other means.

Section 3: Composition/information on ingredients



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Subs	tance / Mixture	: Mixture		
Com	ponents			
Chem	nical name		CAS-No.	Concentration (% w/w)
Propy	/lene glycol		57-55-6	>= 20 -< 30
Enrof	loxacin		93106-60-6	>= 2.5 -< 10
Potas	ssium hydroxide		1310-58-3	>= 1 -< 2
Benz	yl alcohol		100-51-6	>= 0.1 -< 1
ection 4	: First-aid measures			
	eral advice		accident or if vou	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.
In case of skin contact	:	In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.
In case of eye contact	:	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lens, if worn. Get medical attention.
If swallowed	:	If swallowed, DO NOT induce vomiting. Get medical attention. Rinse mouth thoroughly with water.
Most important symptoms and effects, both acute and delayed	:	Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Suspected of damaging fertility. May cause damage to organs through prolonged or repeated
Protection of first-aiders	:	exposure. 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 Carbon dioxide (CO2) 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-	:	Carbon oxides



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	ods Special for firef	c extinguishing meth- I protective equipment ighters em Code	: :	cumstances and t Use water spray t Remove undamag so. Evacuate area. In the event of fire	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 e, wear self-contained breathing apparatus. ective equipment.
Sect	tion 6: /	Accidental release me	easi	ures	
	tive equ	al precautions, protec- uipment and emer- procedures	:	Follow safe handl	ective equipment. ing advice (see section 7) and personal pro- recommendations (see section 8).
	Enviror	nmental 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 oil se of contaminated wash water. should be advised if significant spillages
		ds and materials for iment and cleaning up	:	Avoid dispersal of with compressed Dust deposits sho es, as these may leased into the atr 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 c mine which regula Sections 13 and 1	a absorbent material. dust in the air (i.e., clearing dust surfaces air). und not be allowed to accumulate on surfac- form an explosive mixture if they are re- mosphere in sufficient concentration. rovide dyking or other appropriate contain- erial from spreading. If dyked material can recovered material in appropriate container. og materials from spill with suitable absor- regulations may apply to releases and dis- rial, as well as those materials and items leanup of releases. You will need to deter- ations are applicable. 5 of this SDS provide information regarding tional requirements.
Sect	tion 7: I	Handling and storage			
	Technie	cal measures	:	Static electricity m causing an explos	nay accumulate and ignite suspended dust sion.

	•	causing an explosion.
		Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres.
Local/Total ventilation	:	Use only with adequate ventilation.





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Advice on safe handling Hygiene measures		Do not swallow Do not get in ey Wash skin thor Handle in acco practice, based sessment Minimize dust g Keep container Keep away fror Take precaution Do not eat, drin	mist or vapours.
		 If exposure to chemical is likely during typical use, pr flushing systems and safety showers close to the wo place. When using do not eat, drink or smoke. Wash contaminated clothing before re-use. The effective operation of a facility should include rev engineering controls, proper personal protective equi appropriate degowning and decontamination procedu industrial hygiene monitoring, medical surveillance an use of administrative controls. 	
Conc	litions for safe storage	: Keep in proper Store locked up	y labelled containers.
Mate	rials to avoid		th the following product types:

Section 8: Exposure controls/personal protection

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Propylene glycol	57-55-6	WES-TWA (particulate)	10 mg/m3	NZ OEL
		WES-TWA (Vapour and particulates)	150 ppm 474 mg/m3	NZ OEL
Enrofloxacin	93106-60-6	TWA	0.2 mg/m3 (OEB 2)	Internal
Potassium hydroxide	1310-58-3	WES-Ceiling	2 mg/m3	NZ OEL
		С	2 mg/m3	ACGIH

Components with workplace control parameters

:

Engineering measures

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





ersion)	Revision Date: 06.07.2024	-	S Number: 223964-00007	Date of last issue: 30.09.2023 Date of first issue: 12.11.2021		
			design and opera protect products,	ontrols should be implemented by facility ated in accordance with GMP principles to workers, and the environment. ations do not require special containment.		
	onal protective equipme	ent				
-	iratory protection ter type	:	sure assessment	exhaust ventilation is not available or expo demonstrates exposures outside the rec- elines, use respiratory protection.		
Hand	protection aterial	:	Chemical-resista			
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 aerosols.			
Skin a	and body protection	:	Work uniform or	laboratory coat.		
ction 9	Physical and chemica	l pr	operties			
Appe	arance	:	Aqueous solutio	n		
Colou	ır	:	Clear white to yellow.			
Odou	r	:	No data availabl	е		
Odou	r Threshold	:	No data availabl	e		
рН		:	10.5 - 12.5			
Meltir	ng point/freezing point	:	No data availabl	e		
Initial range	boiling point and boiling	:	No data availabl	e		
Flash	point	:	Not applicable			
Evap	oration rate	:	No data availabl	e		
Flam	mability (solid, gas)	:	May form explosed dling or other me	sive dust-air mixture during processing, har eans.		
Flam	mability (liquids)	:	Not applicable			
	r explosion limit / Upper nability limit	:	No data availabl	e		
Lowo	r explosion limit / Lower		No data availabl	A		

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Enrofloxacin Liquid Formulation

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,	Vapour	pressure	:	No data available	9
I	Relative	e vapour density	:	No data available	9
ļ	Relative	e density	:	No data available	9
I	Density		:	No data available	9
:	Solubilit Wate	ty(ies) er solubility	:	No data available	9
	Partitior octanol/	n coefficient: n-	:	Not applicable	
		nition temperature	:	No data available	9
ļ	Decomp	position temperature	:	No data available	9
Ň	Viscosit Visc	y osity, kinematic	:	No data available	9
I	Explosiv	ve properties	:	Not explosive	
(Oxidizir	ng properties	:	The substance o	r mixture is not classified as oxidizing.
I	Molecul	ar weight	:	No data available	9
	Particle Particle	characteristics 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. May form explosive dust-air mixture during processing, han- dling or other means. Can react with strong oxidizing agents.
Conditions to avoid	:	Heat, flames and sparks. Avoid dust formation.
Incompatible materials	:	Oxidizing agents Acids
Hazardous decomposition products	:	No hazardous decomposition products are known.

Section 11: Toxicological information

Exposure routes	: Inhalation
-	Skin contact
	Ingestion



rsion)	Revision Date: 06.07.2024		OS Number: 223964-00007	Date of last issue: 30.09.2023 Date of first issue: 12.11.2021
Aout	o tovicity		Eye contact	
	e toxicity lassified based on ava	ailable	information.	
Prod				
-	oral toxicity	:	Acute toxicity es Method: Calcula	stimate: > 2,000 mg/kg ation method
<u>Com</u>	ponents:			
Prop	ylene glycol:			
Acute	e oral toxicity	:	LD50 (Rat): 22,	000 mg/kg
Acute	inhalation toxicity	:	LC50 (Rat): > 4 Exposure time: Test atmospher	4 h
Acute	e dermal toxicity	:	LD50 (Rabbit): : Assessment: Th toxicity	> 2,000 mg/kg ne substance or mixture has no acute derived acute derived acute derived acute deri acute derived acute derived
Enro	floxacin:			
Acute	e oral toxicity	:	LD50 (Rabbit):	500 - 800 mg/kg
			LD50 (Rat): > 5	000 mg/kg
			LD50 (Mouse):	> 5,000 mg/kg
Acute	e dermal toxicity	:	LD50 (Rabbit):	> 2,000 mg/kg
Potas	ssium hydroxide:			
Acute	e oral toxicity	:	Method: Expert	stimate: 100 mg/kg judgement d on national or regional regulation.
Acute	e inhalation toxicity	:	Assessment: Co	prrosive to the respiratory tract.
Benz	yl alcohol:			
	e oral toxicity	:	LD50 (Rat): 1,6	20 mg/kg
Acute	e inhalation toxicity	:	LC50 (Rat): > 4 Exposure time: Test atmospher Method: OECD	4 h
Acute	e dermal toxicity	:	Method: Expert	stimate: 1,100 mg/kg judgement d on national or regional regulation.





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-	corrosion/irritation			
	es skin irritation.			
Com	ponents:			
	ylene glycol:			
Spec		:	Rabbit	
Meth Resu		:	OECD Test Guid No skin irritation	lenne 404
	floxacin:			
Resu	lt	:	No skin irritation	
Pota	ssium hydroxide:			
Spec		:	Rabbit	
Resu	lt	:	Corrosive after 3	minutes or less of exposure
Benz	yl alcohol:			
Spec		:	Rabbit	
Meth Resu		:	OECD Test Guid No skin irritation	leline 404
Serio	ous eye damage/eye	irritati	on	
Caus	es serious eye irritatio	on.		
Com	ponents:			
	ylene glycol:			
Spec	ies	:	Rabbit	
Resu Meth	od	:	No eye irritation OECD Test Guid	leline 405
Enro	floxacin:			
Resu	lt	:	Mild eye irritation	1
Pota	ssium hydroxide:			
Spec	ies	:	Rabbit	
Resu		:	Irreversible effec	ts on the eye
Benz	yl alcohol:			
Spec	-	:	Rabbit	
Resu		:		reversing within 21 days
Meth	uu	•	OECD Test Guid	





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Resp	iratory or skin sensiti	isatio	on	
	sensitisation			
-	ause an allergic skin r	eactio	on.	
-	iratory sensitisation assified based on avai	labla	information	
		lable	information.	
	oonents:			
Propy Test 1	/lene glycol:		Maximisation Tes	\
	sure routes	÷	Skin contact	bl
Speci		:	Guinea pig	
Resul	t	:	negative	
Enrof	loxacin:			
Test	Гуре	:	Maximisation Tes	st
Expos Speci	sure routes	:	Dermal Guinea pig	
Resul		:	Not a skin sensiti	zer.
	sium hydroxide:			
Test T Expos	sure routes	:	Intracutaneous te Skin contact	est
Speci	es	:	Guinea pig	
Resul	t	:	negative	
Benzy	yl alcohol:			
Asses		:	Probability or evi	dence of skin sensitisation in humans
Rema	ırks	:		al or regional regulation.
Chro	nic toxicity			
Germ	cell mutagenicity			
Not cl	assified based on avai	lable	information.	
<u>Comp</u>	oonents:			
Propy	/lene glycol:			
Geno	toxicity in vitro	:	Test Type: Bacte Result: negative	rial reverse mutation assay (AMES)
				nosome aberration test in vitro est Guideline 473
Geno	toxicity in vivo	:	cytogenetic assa Species: Mouse	nalian erythrocyte micronucleus test (in vivo y) e: Intraperitoneal injection



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		Result: negative	
Enro	floxacin:		
	toxicity in vitro	: Test Type: Chrom Result: positive	osomal aberration
Geno	toxicity in vivo	: Test Type: Micron Species: Mouse Result: negative	ucleus test
		Test Type: Mamm change Species: Hamster Result: negative	alian bone marrow sister chromatid ex-
		Test Type: Chrom Species: Rat Result: negative	osomal aberration
Potas	ssium hydroxide:		
	toxicity in vitro	: Test Type: Bacteri Result: negative	al reverse mutation assay (AMES)
Benz	yl alcohol:		
	toxicity in vitro	: Test Type: Bacteri Result: negative	al reverse mutation assay (AMES)
Geno	toxicity in vivo	cytogenetic assay Species: Mouse	alian erythrocyte micronucleus test (in vivo) Intraperitoneal injection
II			
	nogenicity lassified based on av	ailable information.	
Com	ponents:		
	ylene glycol:		
Speci	es cation Route	: Rat : Ingestion	
	sure time	: 2 Years : negative	
Enro	floxacin:		
Speci	es	: Rat	
	cation Route sure time	: Oral : 2 Years	
Resu		: negative	
		11 / 19	



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	cation Route sure time			
Specie Applic	cation Route sure time od	: 103 : OE	use estion weeks CD Test Guid pative	leline 451
Suspe	oductive toxicity ected of damaging ferti conents:	ty.		
	/lene glycol: s on fertility	Spe App	t Type: Two- cies: Mouse lication Rout sult: negative	generation reproduction toxicity study e: Ingestion
Effect	s on foetal develop-	Spe App	t Type: Embrecies: Mouse plication Rout sult: negative	yo-foetal development e: Ingestion
II Enrof	loxacin:			
	s on fertility	Spe App Fer	ecies: Rat blication Rout tility: LOAEL:	generation study e: Oral 15 mg/kg body weight n fertility, alteration in sperm morphology
Effect: ment	s on foetal develop-	Spe App Dev Res	sult: Reduced	
		Spe App Dev		
Repro sessm	oductive toxicity - As- nent			of adverse effects on sexual function and animal experiments.





ersion	Revision Date: 06.07.2024		OS Number: 223964-00007	Date of last issue: 30.09.2023 Date of first issue: 12.11.2021
I				
	yl alcohol: s on fertility	:	Species: Rat Application Rou Result: negative	
Effect ment	s on foetal develop-	:	Test Type: Emb Species: Mouse Application Rou Result: negative	te: Ingestion
	- single exposure assified based on ava	ilable	information.	
	- repeated exposure cause damage to organ		rtilage, Testis) th	rough prolonged or repeated exposure.
<u>Comp</u>	oonents:			
Targe	f loxacin: et Organs esment	:	cartilage, Testis Causes damage exposure.	e to organs through prolonged or repeated
Repe	ated dose toxicity			
<u>Com</u> r	oonents:			
Propy	/lene glycol:			
		:	Rat, male >= 1,700 mg/kg Ingestion 2 yr	
Enrof	loxacin:			
Expos	EL		Rat 36 mg/kg 150 mg/kg Oral 13 Weeks Testis	
Expos	EL		Dog 3 mg/kg 9.6 mg/kg Oral 13 Weeks cartilage	





ersion 0	Revision Date: 06.07.2024	-	S Number: 223964-00007	Date of last issue: 30.09.2023 Date of first issue: 12.11.2021
	EL cation Route sure time	:	Cat 25 mg/kg Oral 30 Days No significant ad	verse effects were reported
Bana			-	
Spec NOA Appli	EL cation Route sure time	:	Rat 1.072 mg/l inhalation (dust/n 28 Days OECD Test Guid	
Expe	lassified based on availa r ience with human exp ponents:			
Enro Inges	floxacin: tion	:	Symptoms: Gast tem effects, Sens	rointestinal disturbance, central nervous sy sitivity to light
ection 1	2: Ecological information	on		
Ecot	oxicity			
<u>Com</u>	ponents:			
Prop	-	:	LC50 (Oncorhyn Exposure time: 9	chus mykiss (rainbow trout)): 40,613 mg/l 6 h
Prop Toxic Toxic	ponents: ylene glycol:		Exposure time: 9	6 h nnia dubia (water flea)): 18,340 mg/l
Prop Toxic Toxic aqua	ponents: ylene glycol: hity to fish hity to daphnia and other tic invertebrates hity to algae/aquatic		Exposure time: 9 EC50 (Ceriodaph Exposure time: 4 ErC50 (Skeleton Exposure time: 7	6 h inia dubia (water flea)): 18,340 mg/l 8 h ema costatum (marine diatom)): 19,300 mg

Toxicity to microorganisms : NOEC (Pseudomonas putida): > 20,000 mg/l Exposure time: 18 h

Enrofloxacin:

ic toxicity)

Toxicity to fish

Exposure time: 96 h

: LC50 (Lepomis macrochirus (Bluegill sunfish)): 79.5 mg/l





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			LC50 (Oncorhyn Exposure time: 9	chus mykiss (rainbow trout)): > 196 mg/l 6 h
			LC50 (Oryzias la Exposure time: 9	tipes (Japanese medaka)): > 100 mg/l 6 h
	ty to daphnia and other ic invertebrates	:	EC50 (Hyalella a Exposure time: 9	zteca (Amphipod)): > 206 mg/l 6 h
			EC50 (Daphnia r Exposure time: 4	nagna (Water flea)): 79.9 mg/l 8 h
Toxici plants	ty to algae/aquatic	:	EC50 (Pseudokin mg/l Exposure time: 7	rchneriella subcapitata (green algae)): 3.1 2 h
			EC50 (Microcyst Exposure time: 5	is aeruginosa (blue-green algae)): 0.049 mg d
	ctor (Acute aquatic tox-	:	10	
Toxici aquati	icity) Toxicity to daphnia and other aquatic invertebrates (Chron-	:	NOEC (Daphnia Exposure time: 2	magna (Water flea)): 9.8 mg/l 1 d
ic toxi	city)		NOEC (Daphnia Exposure time: 2	magna (Water flea)): 5 mg/l 1 d
			LOEC (Daphnia Exposure time: 2	magna (Water flea)): 15 mg/l 1 d
M-Fac toxicit	ctor (Chronic aquatic y)	:	10	
	/l alcohol:			
Toxici	ty to fish	:	LC50 (Pimephale Exposure time: 9	es promelas (fathead minnow)): 460 mg/l 6 h
	ty to daphnia and other ic invertebrates	:	Exposure time: 4	nagna (Water flea)): 230 mg/l 8 h ⁻ est Guideline 202
Toxici plants	ty to algae/aquatic	:	mg/l Exposure time: 7	rchneriella subcapitata (green algae)): 770 2 h Fest Guideline 201
			mg/l Exposure time: 7	irchneriella subcapitata (green algae)): 310 2 h ⁻ est Guideline 201
Toxici	ty to daphnia and other	:	NOEC (Daphnia	magna (Water flea)): 51 mg/l



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aquat ic tox	ic invertebrates (Chron- city)		Exposure time: 2 Method: OECD T	1 d est Guideline 211
Persi	stence and degradabil	ity		
<u>Com</u>	ponents:			
	ylene glycol: gradability	:	Result: Readily b Biodegradation: Exposure time: 2 Method: OECD T	98.3 %
	yl alcohol: gradability	:	Result: Readily b Biodegradation: Exposure time: 1	92 - 96 %
Bioad	cumulative potential			
Com	oonents:			
Partit	ylene glycol: on coefficient: n- ol/water	:	log Pow: -1.07 Method: Regulati	on (EC) No. 440/2008, Annex, A.8
Partit	i loxacin: on coefficient: n- ol/water	:	log Pow: 0.5	
Partiti octan	yl alcohol: on coefficient: n- ol/water	:	log Pow: 1.05	
Mobi	lity in soil			
<u>Com</u>	oonents:			
Distril	iloxacin: oution among environ- al compartments	:	Koc: 5.55	
	r adverse effects ata 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-



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ection 14	4: Transport information	lf no		cling or disposal. specified: Dispose of as unused product.
Interr	national Regulations			
UNRT				
UN nu	umber er shipping name			ALLY HAZARDOUS SUBSTANCE, LIQUID,
		•	rofloxacin)	
Class Packi	ng group	: 9 : III		
Label	S	: 9		
Enviro	onmentally hazardous	: no		
			2000	
UN/ID Prope	er shipping name	: Env	3082 ironmentally rofloxacin)	hazardous substance, liquid, n.o.s.
Class		: 9	,	
Packi Label	ng group	: · Mie	cellaneous	
	ng instruction (cargo	: 964		
	ng instruction (passen-	: 964		
	-Code			
	umber		3082	
Prope	er shipping name	N.C		ALLY HAZARDOUS SUBSTANCE, LIQUID
Class		: 9	Unuxacitty	
Packi	ng group	: 111		
Label EmS	-	: 9 · F-A	, S-F	
	e pollutant	: yes		
	sport in bulk according			POL 73/78 and the IBC Code
-	nal Regulations			
NZS	-			
UN nı	umber er shipping name	: EN\ N.C	.S.	ALLY HAZARDOUS SUBSTANCE, LIQUID
Class		: 9	nrofloxacin)	
Packi	ng group	: 111		
Label	s nem Code	: 9 : 3Z		
i iazul		. 32		



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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.

Section 15: Regulatory information

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

HSNO Approval Number

HSR100759 Veterinary Medicines Non dispersive Open System Application Group Standard

Tolerable Exposure Limits (TEL)

Not applicable

Environmental Exposure Limits (EEL)

Not applicable

HSW Controls

Certified handler certificate not required. Tracking hazardous substance not required. Refer to the Health and Safety at Work (Hazardous Substances) Regulations 2017, for further information.

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

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

Section 16: Other information

Revision Date	:	06.07.2024
Further information Sources of key data used to compile the Safety Data Sheet	:	Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agen- cy, 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.

Date format	:	dd.mm.yyyy
Full text of other abbreviation	ons	
ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)
NZ OEL	:	New Zealand. Workplace Exposure Standards for Atmospher- ic Contaminants



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ACGIH / C	:	Ceiling limit
NZ OEL / WES-TWA	:	Workplace Exposure Standard - Time Weighted average
NZ OEL / WES-Ceiling	:	Workplace Exposure Standard - Ceiling

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

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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