



Vers 5.0	ion	Revision Date: 06.07.2024		OS Number: 223961-00008	Date of last issue: 06.04.2024 Date of first issue: 12.11.2021				
SEC		1: Identification of	the	substance/mixt	ure and of the company/undertaking				
1.1 F	1.1 Product identifier								
	Trade r	name	:	Enrofloxacin Liqui	d Formulation				
1.2 F	Relevar	nt identified uses of t	he s	ubstance or mixt	ure and uses advised against				
	Use of	the Sub- /Mixture	:	Veterinary produc					
	Recom on use	mended restrictions	:	Not applicable					
1.3 [Details	of the supplier of the	saf	ety data sheet					
	Compa	ny	:	MSD 20 Spartan Road 1619 Spartan, So	outh Africa				
	Teleph	one	:	+27119239300					
		address of person sible for the SDS	:	EHSDATASTEW	ARD@msd.com				
1.4 E	1.4 Emergency telephone number								

1.4 Emergency telephone number

+1-908-423-6000

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Skin irritation, Category 2 Eye irritation, Category 2 Reproductive toxicity, Category 2 Specific target organ toxicity - repeated exposure, Category 2 Short-term (acute) aquatic hazard, Category 1 Long-term (chronic) aquatic hazard, Category 1 H315: Causes skin irritation.
H319: Causes serious eye irritation.
H361f: Suspected of damaging fertility.
H373: May cause damage to organs through prolonged or repeated exposure.
H400: Very toxic to aquatic life.

H410: Very toxic to aquatic life with long lasting effects.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

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Hazard pictograms



Signal word



Enrofloxacin Liquid Formulation

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Hazar	d statements	H361f Suspecte H373 May caus repeated exposu	serious eye irritation. ed of damaging fertility. se damage to organs through prolonged or
Precautionary statements		P264 Wash ski P273 Avoid rel	pecial instructions before use. in thoroughly after handling. ease to the environment. otective gloves/ protective clothing/ eye protec- ion.
		Response: P308 + P313 II attention. P391 Collect s	F exposed or concerned: Get medical advice/ pillage.

Hazardous components which must be listed on the label: Enrofloxacin

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

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

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
Enrofloxacin	93106-60-6	Acute Tox. 4; H302 Repr. 2; H361f STOT RE 1; H372 (cartilage, Testis) Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 10 M-Factor (Chronic aquatic toxicity): 10	>= 3 - < 10
Potassium hydroxide	1310-58-3 215-181-3	Met. Corr. 1; H290 Acute Tox. 4; H302	>= 1 - < 2



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		019-002-00	0-8 Skin Corr. 1A; H314 Eye Dam. 1; H318
Benz	yl alcohol	100-51-6 202-859-9 603-057-00	Acute Tox. 4; H302 >= 0,1 - < 1 Acute Tox. 4; H332 Eye Irrit. 2; H319

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of 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.				
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).				
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.				
4.2 Most important symptoms a	nd	effects, both acute and delayed				
Risks	:	Causes skin irritation. Causes serious eye irritation. Suspected of damaging fertility. May cause damage to organs through prolonged or repeated exposure.				
4.3 Indication of any immediate	me	dical attention and special treatment needed				
Treatment	:	Treat symptomatically and supportively.				



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SECTIO	SECTION 5: Firefighting measures							
5.1 Exting	guishing media							
Suita	ble extinguishing media	:	Water spray Alcohol-resistant Carbon dioxide (0 Dry chemical					
Unsu medi	iitable extinguishing a	:	None known.					
5.2 Speci	al hazards arising from	the	e substance or mi	xture				
Spec fighti	ific hazards during fire- ng	:	Exposure to com	pustion products may be a hazard to health.				
Haza ucts	ardous combustion prod-	:	Carbon oxides Metal oxides					
5.3 Advic	e for firefighters							
	ial protective equipment efighters	:		e, wear self-contained breathing apparatus. tective equipment.				
Spec ods	ific extinguishing meth-	:	cumstances and Use water spray	g 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				
SECTIO	N 6: Accidental releas	se r	neasures					
6.1 Perso	onal precautions, protec	ctive	e equipment and	emergency procedures				
Pers	onal precautions	:	Follow safe hand	tective equipment. ling advice (see section 7) and personal pro- t recommendations (see section 8).				
6.2 Envir	onmental precautions							
Envir	onmental precautions	:	Prevent spreadin 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				

6.3 Methods and material for containment and cleaning up

Methods for cleaning up		Soak up with inert absorbent material.
		Avoid dispersal of dust in the air (i.e., clearing dust surfaces
		with compressed air).
		Dust deposits should not be allowed to accumulate on surfac-



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		leased into the af For large spills, p ment to keep ma be pumped, store Clean up remain bent. Local or national posal of this mate employed in the mine which regul Sections 13 and	r form an explosive mixture if they are re- tmosphere in sufficient concentration. provide dyking or other appropriate contain- terial from spreading. If dyked material can be recovered material in appropriate container. Ing 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. 15 of this SDS provide information regarding ational requirements.

6.4 Reference to other sections

See sections: 7, 8, 11, 12 and 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

		0	
	Technical measures	:	Static electricity may accumulate and ignite suspended dust causing an explosion. Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres.
	Local/Total ventilation Advice on safe handling	:	Use only with adequate ventilation. Do not get on skin or clothing. Do not breathe mist or vapours. Do not swallow. Do not get in eyes. Wash skin thoroughly after handling. Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure as- sessment Minimize dust generation and accumulation. Keep container closed when not in use. Keep away from heat and sources of ignition. Take precautionary measures against static discharges. Do not eat, drink or smoke when using this product. Take care to prevent spills, waste and minimize release to the
	Hygiene measures	:	environment. 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. Wash contami- nated 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.
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7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage	:	Keep in properly labelled containers. Store locked up. Store in
areas and containers		accordance with the particular national regulations.



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Advic	e on common storage	:	Strong oxidizing	ostances and mixtures
•	ic end use(s) fic use(s)	:	No data availabl	e

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis		
Enrofloxacin	93106-60-6	TWA	0.2 mg/m3 (OEB 2)	Internal		
Potassium hydrox-	1310-58-3	OEL- RL STEL/C	4 mg/m3	ZA OEL		
ide						
	Further information: Occupational Exposure Limits - Restricted Limits For Hazardous Chemical Agents					

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health ef- fects	Value
Potassium hydroxide	Workers	Inhalation	Long-term local ef- fects	1 mg/m3
	Consumers	Inhalation	Long-term local ef- fects	1 mg/m3
Propylene glycol	Workers	Inhalation	Long-term local ef- fects	10 mg/m3
	Workers	Inhalation	Long-term systemic effects	168 mg/m3
	Consumers	Inhalation	Long-term local ef- fects	10 mg/m3
	Consumers	Inhalation	Long-term systemic effects	50 mg/m3
Benzyl alcohol	Workers	Inhalation	Long-term systemic effects	22 mg/m3
	Workers	Inhalation	Acute systemic ef- fects	110 mg/m3
	Workers	Skin contact	Long-term systemic effects	8 mg/kg bw/day
	Workers	Skin contact	Acute systemic ef- fects	40 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	5,4 mg/m3
	Consumers	Inhalation	Acute systemic ef- fects	27 mg/m3
	Consumers	Skin contact	Long-term systemic	4 mg/kg



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						effects	bw/day	
		Consume			Acute systemic ef- fects	20 mg/kg bw/day		
		Consumers Consumers		Ingestion		Long-term systemic effects	4 mg/kg bw/day	
				Ingestion		Acute systemic ef- fects	20 mg/kg bw/day	
Predi	icted No Effect C	oncentratio	on (PN	IEC) accor	ding to	Regulation (EC) No	. 1907/2006:	
Subst	tance name		Envi	ronmental C	Compartr	ment	Value	
Propy	lene glycol/		Fresh water			260 mg/l		
			Freshwater - intermittent			183 mg/l		
			Marine water			26 mg/l		
			Sewage treatment plant Fresh water sediment Marine sediment			20000 mg/l		
						572 mg/kg dry weight (d.w.)	/	
						57,2 mg/kg dr weight (d.w.)	у	
				Soil			50 mg/kg dry weight (d.w.)	
Benzy	yl alcohol		Fresh water			1 mg/l		
			Marine water				0,1 mg/l	
			Intermittent use/release				2,3 mg/l	
			Sewage treatment plant				39 mg/l	
			Fres	h water sed	iment		5,27 mg/kg	
				ne sedimen	t		0,527 mg/kg	
			Soil				0,456 mg/kg	

8.2 Exposure controls

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

Eye/face 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.
Hand protection Material	:	Chemical-resistant gloves
Skin and body protection Respiratory protection	:	Work uniform or laboratory coat. If adequate local exhaust ventilation is not available or expo- sure assessment demonstrates exposures outside the rec- ommended guidelines, use respiratory protection.
Filter type	:	Particulates type (P)





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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

5.1 information on basic physical	an	
Appearance Colour Odour Odour Threshold	:	Aqueous solution Clear white to yellow. No data available No data available
рН	:	10,5 - 12,5
Melting point/freezing point	:	No data available
0 1 0	:	No data available
range Flash point	:	Not applicable
Evaporation rate	:	No data available
Flammability (solid, gas)	:	May form explosive dust-air mixture during processing, han- dling or other means.
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
Relative density	:	No data available
Density	:	No data available
Solubility(ies) Water solubility Partition coefficient: n- octanol/water Auto-ignition temperature	:	No data available Not applicable No data available
Decomposition temperature	:	No data available
Viscosity Viscosity, kinematic	:	No data available
Explosive properties	:	Not explosive
Oxidizing properties	:	The substance or mixture is not classified as oxidizing.
9.2 Other information		
Flammability (liquids)	:	Not applicable



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Molec	ular weight	:	No data availab	le
Partic	le size	:	Not applicable	
SECTION	10: Stability and I	reactiv	/ity	
10.1 Reac	tivity			
Not cl	assified as a reactivity	y hazar	d.	
10.2 Chem	nical stability			
Stable	e under normal condit	ions.		
10.3 Possi	ibility of hazardous	reactio	ons	
	dous reactions	:	May form explo dling or other m	sive dust-air mixture during processing, han- eans. strong oxidizing agents.
10.4 Cond	itions to avoid			
Condi	tions to avoid	:	Heat, flames an Avoid dust form	
10.5 Incon	npatible materials			
	ials to avoid	:	Oxidizing agent Acids	S
10.6 Haza No ha	ials to avoid r dous decompositio zardous decompositio	on proc	Acids ucts ducts are known.	S
10.6 Hazar No ha SECTION	r dous decompositio zardous decompositio	on proc	Acids lucts ducts are known. mation	S
10.6 Hazar No ha SECTION 11.1 Inforr	rdous decompositio zardous decompositio I 11: Toxicological mation on toxicologi nation on likely routes	inforr	Acids lucts ducts are known. mation	S
10.6 Hazar No ha SECTION 11.1 Inforr Inform expos	rdous decompositio zardous decompositio I 11: Toxicological mation on toxicologi nation on likely routes	inforr	Acids Acids ducts ducts are known. mation ects Inhalation Skin contact Ingestion	S
10.6 Hazar No ha SECTION 11.1 Inform Inform expos	rdous decompositio zardous decompositio I 11: Toxicological nation on toxicologi nation on likely routes ure	inform inform ical eff of :	Acids Acids	S
10.6 Hazar No ha SECTION 11.1 Inform Inform expos	rdous decompositio zardous decompositio I 11: Toxicological nation on toxicologi nation on likely routes ure toxicity assified based on ava	inform inform ical eff of :	Acids Acids	S
10.6 Hazar No ha SECTION 11.1 Inform Inform expose Acute Not cl <u>Produ</u>	rdous decompositio zardous decompositio I 11: Toxicological nation on toxicologi nation on likely routes ure toxicity assified based on ava	inforr ical eff of :	Acids Acids	timate: > 2.000 mg/kg
10.6 Hazar No ha SECTION 11.1 Inform Inform expose Acute Not cl <u>Produ</u> Acute	rdous decompositio zardous decompositio I 11: Toxicological nation on toxicologi nation on likely routes ure toxicity assified based on ava	inforr ical eff of :	Acids Acids	timate: > 2.000 mg/kg
10.6 Hazar No ha SECTION 11.1 Inform Inform expos Acute Not cl Produ Acute	rdous decompositio zardous decompositio I 11: Toxicological nation on toxicologi nation on likely routes ure toxicity assified based on ava <u>Ict:</u> oral toxicity	inforr ical eff of :	Acids Acids	timate: > 2.000 mg/kg
10.6 Hazar No ha SECTION 11.1 Inform Inform expose Acute Not cl <u>Produ</u> Acute <u>Comp</u> Enrof	rdous decompositio zardous decompositio I 11: Toxicological nation on toxicologi nation on likely routes ure toxicity assified based on ava <u>uct:</u> oral toxicity	inforr ical eff of : ailable i	Acids Acids	timate: > 2.000 mg/kg tion method
10.6 Hazar No ha SECTION 11.1 Inform Inform expose Acute Not cl <u>Produ</u> Acute <u>Comp</u> Enrof	rdous decompositio zardous decompositio I 11: Toxicological mation on toxicologi nation on likely routes ure toxicity assified based on ava <u>act:</u> oral toxicity ponents: loxacin:	inforr ical eff of : ailable i	Acids Acids	timate: > 2.000 mg/kg tion method 00 - 800 mg/kg



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۸ci	ite dermal toxicity	:	LD50 (Rabbit): > 2	2 000 ma/ka
AU		•		2.000 mg/kg
Pot	assium hydroxide:			
Αςι	ite oral toxicity	:	LD50 (Rat): 333 r	ng/kg
Acu	Acute inhalation toxicity		Assessment: Corr	rosive to the respiratory tract.
Bei	nzyl alcohol:			
	ite oral toxicity	:	LD50 (Rat): 1.620) mg/kg
Acı	ite inhalation toxicity	:	LC50 (Rat): > 4,178 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403	
	n corrosion/irritation uses skin irritation.			
Co	mponents:			
Enr	ofloxacin:			
Res	sult	:	No skin irritation	
Pot	assium hydroxide:			
Spe Res	ecies sult	:	Rabbit Corrosive after 3	minutes or less of exposure
Bei	nzyl alcohol:			
	ecies	:	Rabbit	
Res	thod sult	:	OECD Test Guide No skin irritation	eline 404
	ious eye damage/eye irr		on	
	uses serious eye irritation.			
<u>Co</u>	mponents:			
	ofloxacin:			
Res	sult	:	Mild eye irritation	
Pot	assium hydroxide:			
	ecies	:	Rabbit Irreversible effect	s on the eye
Bei	nzyl alcohol:			
		:	Rabbit	- 105
Met Res	thod sult	:	OECD Test Guide Irritation to eyes,	eline 405 reversing within 21 days



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Respi	ratory or skin sens	isation	
	ensitisation assified based on av	ilable information.	
	ratory sensitisation assified based on ava	ilable information.	
<u>Comp</u>	onents:		
Enrofl	loxacin:		
Test T Expos Specie Result	ure routes es	 Maximisation Test Dermal Guinea pig Not a skin sensitizer. 	
Potas	sium hydroxide:		
Test T	ype ure routes es	 Intracutaneous test Skin contact Guinea pig negative 	
Benzy	l alcohol:		
Test T	ype ure routes es d	 Maximisation Test Skin contact Guinea pig OECD Test Guideline 406 negative 	
	cell mutagenicity assified based on av	ilable information	
_	onents:		
Enrofi	loxacin:		
	oxicity in vitro	: Test Type: Chromosomal aberra Result: positive	ation
Genote	oxicity in vivo	: Test Type: Micronucleus test Species: Mouse Result: negative	
		Test Type: Mammalian bone ma change Species: Hamster Result: negative	arrow sister chromatid ex-
		Test Type: Chromosomal aberra Species: Rat Result: negative	ation
Potas	sium hydroxide:		



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		Result: negative					
Ben	zyl alcohol:						
	otoxicity in vitro	: Test Type: Bacterial reverse mutation assay Result: negative	(AMES)				
Gen	otoxicity in vivo	: Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay) Species: Mouse Application Route: Intraperitoneal injection Result: negative					
	cinogenicity						
	classified based on avail	Die information.					
	nponents:						
Spe App	lication Route osure time	: Rat : Oral : 2 Years : negative					
	lication Route osure time	 Mouse Oral 2 Years negative 					
Spe App	lication Route osure time hod	 Mouse Ingestion 103 weeks OECD Test Guideline 451 negative 					
-	roductive toxicity pected of damaging ferti	1.					
	nponents:						
Enro	ofloxacin: cts on fertility	: Test Type: Two-generation study Species: Rat Application Route: Oral Fertility: LOAEL: 15 mg/kg body weight Result: Effects on fertility, alteration in sperm	morphology				
Effe men	cts on foetal develop- t	: Test Type: Development Species: Rat Application Route: Oral Developmental Toxicity: LOAEL: 210 mg/kg k Result: Reduced foetal weight, No teratogenic Remarks: Maternal toxicity observed.					



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Repro sessm	ductive toxicity - As- nent	:		of adverse effects on sexual function and nanimal experiments.		
Benzy	/l alcohol:					
-	Benzyl alcohol: Effects on fertility		Test Type: Fertility/early embryonic development Species: Rat Application Route: Ingestion Result: negative Remarks: Based on data from similar materials			
Effects ment	s on foetal develop-	:	Test Type: Emb Species: Mouse Application Rou Result: negative	te: Ingestion		
	- single exposure assified based on avai	lable	information.			
	- repeated exposure					
May c	ause damage to organ	is thr	ough prolonged o	r repeated exposure.		
Comp	onents:					
Targe	loxacin: t Organs sment	:	cartilage, Testis Causes damage exposure.	e to organs through prolonged or repeated		
Repea	ated dose toxicity					
<u>Comp</u>	onents:					
Enrof	loxacin:					
Expos	E		Rat 36 mg/kg 150 mg/kg Oral 13 Weeks Testis			

Species	:	Dog
NOAEL	:	3 mg/kg
LOAEL	:	9,6 mg/kg
Application Route	:	Oral
Exposure time	:	13 Weeks
Target Organs	:	cartilage



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NOAI Applio Expo	Species NOAEL Application Route Exposure time Remarks		 Cat 25 mg/kg Oral 30 Days No significant adverse effects were reported 						
Speci NOAI Applic Expo	Benzyl alcohol: Species NOAEL Application Route Exposure time Method		Rat 1,072 mg/l inhalation (dust/mist/fume) 28 Days OECD Test Guideline 412						
-	r <mark>ation toxicity</mark> lassified based on availa	ble	information.						
Expe	rience with human exp	osu	ire						
Com	ponents:								
Enro Inges	floxacin: tion	:	Symptoms: Gastrointestinal disturbance, central nervous sys- tem effects, Sensitivity to light						
12.1 Toxic <u>Com</u>	city ponents:								
Enro	floxacin:								
Toxic	ity to fish	:	LC50 (Lepomis m Exposure time: 96	acrochirus (Bluegill sunfish)): 79,5 mg/l 5 h					
			LC50 (Oncorhync Exposure time: 96	hus mykiss (rainbow trout)): > 196 mg/l ን h					
			LC50 (Oryzias lat Exposure time: 96	ipes (Japanese medaka)): > 100 mg/l S h					
	ity to daphnia and other tic invertebrates	:	EC50 (Hyalella az Exposure time: 96	zteca (Amphipod)): > 206 mg/l ∂ h					
			EC50 (Daphnia m Exposure time: 48	agna (Water flea)): 79,9 mg/l 3 h					
Toxic plants	ity to algae/aquatic	:	EC50 (Pseudokiro mg/l Exposure time: 72	chneriella subcapitata (green algae)): 3,1 2 h					
			EC50 (Microcystis Exposure time: 5	s aeruginosa (blue-green algae)): 0,049 mg/l d					
M-Fa	ctor (Acute aquatic tox-	:	10						



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icity)				
	y to daphnia and other c invertebrates (Chron- city)	:	NOEC: 9,8 mg/l Exposure time: 2 Species: Daphnia	1 d a magna (Water flea)
			NOEC: 5 mg/l Exposure time: 2 Species: Daphnia	1 d a magna (Water flea)
			LOEC: 15 mg/l Exposure time: 2 Species: Daphnia	1 d a magna (Water flea)
M-Fact toxicity	tor (Chronic aquatic ⁄)	:	10	
Benzy	l alcohol:			
-	y to fish	:	LC50 (Pimephale Exposure time: 9	es promelas (fathead minnow)): 460 mg/l 6 h
	y to daphnia and other c invertebrates	:	Exposure time: 4	nagna (Water flea)): 230 mg/l 8 h ⁻ est Guideline 202
Toxicit plants	y to algae/aquatic	:	mg/l Exposure time: 7	chneriella subcapitata (green algae)): 770 2 h ēst Guideline 201
			mg/l Exposure time: 7	irchneriella subcapitata (green algae)): 310 2 h ⁻ est Guideline 201
	y to daphnia and other c invertebrates (Chron- city)	:	: NOEC: 51 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea) Method: OECD Test Guideline 211	
12.2 Persis	stence and degradabil	ity		
Comp	onents:			
•	I alcohol: gradability	:	: Result: Readily biodegradable. Biodegradation: 92 - 96 % Exposure time: 14 d	
12.3 Bioac	cumulative potential			
<u>Comp</u>	onents:			
-	oxacin:		log Pow: 0,5	



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octan	ol/water			
Partit	yl alcohol: ion coefficient: n- ol/water	:	log Pow: 1,05	
12.4 Mobi	lity in soil			
<u>Com</u>	ponents:			
Distril	floxacin: bution among environ- al compartments	:	Koc: 5,55	
12.5 Resu	llts of PBT and vPvB a	sse	ssment	
Product: Assessment		:	to be either persi	nixture contains no components considered stent, bioaccumulative and toxic (PBT), or nd very bioaccumulative (vPvB) at levels of
12.6 Othe	r adverse effects			
Produ Endo tial	uct: crine disrupting poten-	:	ered to have end REACH Article 5	nixture does not contain components consid- locrine disrupting properties according to 7(f) or Commission Delegated regulation or Commission Regulation (EU) 2018/605 at higher.

Product	 Dispose of in accordance with local regulations. According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities. Do not dispose of waste into sewer.
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.

SECTION 14: Transport information

14.1 UN number

ADN	:	UN 3082
ADR	:	UN 3082
RID	:	UN 3082
IMDG	:	UN 3082



Version 5.0	Revision Date: 06.07.2024		OS Number: 223961-00008	Date of last issue: 06.04.2024 Date of first issue: 12.11.2021	
ΙΑΤΑ		:	UN 3082		
14.2 UN p	roper shipping name				
ADN		:	ENVIRONMENTA N.O.S. (Enrofloxacin)	ALLY HAZARDOUS SUBSTANCE, LIQUID,	
ADR		:	ENVIRONMENT N.O.S. (Enrofloxacin)	ALLY HAZARDOUS SUBSTANCE, LIQUID,	
RID		:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Enrofloxacin)		
IMDG	i	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Enrofloxacin)		
ΙΑΤΑ		:	Environmentally I (Enrofloxacin)	nazardous substance, liquid, n.o.s.	
14.3 Trans	sport hazard class(es)				
			Class	Subsidiary risks	
ADN		:	9		
ADR		:	9		
RID		:	9		
IMDG	i	:	9		
ΙΑΤΑ		:	9		
14.4 Pack	ing group				
Class	ng group ification Code rd Identification Number s	:	III M6 90 9		
Class Hazaı Label	ng group ification Code rd Identification Number s el restriction code	:	III M6 90 9 (-)		
Class	ng group ification Code rd Identification Number s	:	III M6 90 9		
IMDG Packi Label EmS	ng group s	:	III 9 F-A, S-F		



14.6 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.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Remarks

: Not applicable for product as supplied.

SECTION 15: Regulatory information

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

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

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

15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

Other information : Items where changes have been made to the previous version



are highlighted in the body of this document by two vertical lines. Full text of H-Statements H290 : May be corrosive to metals. H302 : Harmful if swallowed. H314 : Causes serious eye damage. H318 : Causes serious eye irritation. H319 : Causes serious eye irritation. H322 : Harmful if inhaled. H361f : Suspected of damaging fertility. H372 : Causes damage to organs through prolonged or repeated exposure. H400 : Very toxic to aquatic life. H410 : Very toxic to aquatic life. H410 : Very toxic to aquatic hazard Aquatic Acute : Short-term (acute) aquatic hazard Aquatic Acute : Short-term (chronic) aquatic hazard Aquatic Chronic : Long-term (chronic) aquatic hazard Eye Irrit. : Eye irritation Met. Corr. : Corrosive to metals Repr. : Reproductive toxicity Skin Corr. : Skin corrosion	ersion .0	Revision Date: 06.07.2024		DS Number: 223961-00008	Date of last issue: 06.04.2024 Date of first issue: 12.11.2021	
H290:May be corrosive to metals.H302:Harmful if swallowed.H314:Causes severe skin burns and eye damage.H318:Causes serious eye damage.H319:Causes serious eye irritation.H332:Harmful if inhaled.H361f:Suspected of damaging fertility.H372:Causes damage to organs through prolonged or repeated exposure.H400:Very toxic to aquatic life.H410:Very toxic to aquatic life with long lasting effects.Full text of other abbreviations:Acute Tox.:Acute toxicityAquatic Acute:Short-term (acute) aquatic hazardAquatic Chronic:Long-term (chronic) aquatic hazardEye Dam.:Serious eye damageEye Irrit.:Eye irritationMet. Corr.:Reproductive toxicitySkin Corr.:Skin corrosionSTOT RE:Specific target organ toxicity - repeated exposureZA OEL:South Africa. The Regulations for Hazardous Chemical Agents, Occupational Exposure LimitsZA OEL / OEL- RL STEL/C:Occupational Exposure Limit Restricted limit - Short term occupational exposure limits / ceiling limits					the body of this document by two vertical	
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ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inla					C	
Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods						

d Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA -European Chemicals Agency; EC-Number - European Community number; 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; 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; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; 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 - (Quanti-



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tative) 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; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; 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

Further information

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

Classification of the n	nixture:	Classification procedure:
Skin Irrit. 2	H315	Calculation method
Eye Irrit. 2	H319	Calculation method
Repr. 2	H361f	Calculation method
STOT RE 2	H373	Calculation method
Aquatic Acute 1	H400	Calculation method
Aquatic Chronic 1	H410	Calculation method

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

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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