

Vers 5.0	sion	Revision Date: 06.07.2024		OS Number: 43108-00009	Date of last issue: 06.04.2024 Date of first issue: 13.10.2021				
SEC	SECTION 1: Identification of the substance/mixture and of the company/undertaking								
1.1	Product Trade r	t identifier name	:	Enrofloxacin Liqui	id (20%) Formulation				
1.2	Use of	nt identified uses of t the Sub- /Mixture	he s :	ubstance or mixto Veterinary produc	ure and uses advised against at				
	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	buth Africa				
	Teleph	one	:	+27119239300					
		address of person sible for the SDS	:	EHSDATASTEW	ARD@msd.com				

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)

Acute toxicity, Category 4 Skin corrosion, Sub-category 1A Serious eye damage, Category 1 Reproductive toxicity, Category 2 Specific target organ toxicity - repeated exposure, Category 1 Short-term (acute) aquatic hazard, Category 1 Long-term (chronic) aquatic hazard, Category 1 H302: Harmful if swallowed.
H314: Causes severe skin burns and eye damage.
H318: Causes serious eye damage.
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.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms



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Enrofloxacin Liquid (20%) Formulation

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Signal	word	: Danger		
Hazard statements		H372	 H314 Causes severe skin burns and eye damage. H361f Suspected of damaging fertility. H372 Causes damage to organs through prolonged or repeated exposure. 	
Supple Staten	emental Hazard nents	: EUH07	1 Co	rrosive to the respiratory tract.
Preca	utionary statements	tion/ fac Respon P303 + immedi shower P305 + with wa sent an	Obtain spe Avoid relea Wear protection nse: P361 + P3 ately all con : Immediate P351 + P3 ater for seve	53 + P310 IF ON SKIN (or hair): Take off ntaminated clothing. Rinse skin with water or ely call a POISON CENTER/ doctor. 38 + P310 IF IN EYES: Rinse cautiously rral minutes. Remove contact lenses, if pre- o. Continue rinsing. Immediately call a / doctor.

Hazardous components which must be listed on the label: Enrofloxacin Potassium hydroxide

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	>= 20 - < 25



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Potas	ssium hydroxide	1310-58-3 215-181-3 019-002-00	Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 10 M-Factor (Chronic aquatic toxicity): 10 Met. Corr. 1; H290 Acute Tox. 4; H302 -8 Skin Corr. 1A; H314	>= 5 - < 10
Disod	dium EDTA, dihydrate	6381-92-6	Eye Dam. 1; H318 Acute Tox. 4; H332 STOT RE 2; H373 (Respiratory Tract)	>= 1 - < 10
Benz	yl alcohol	100-51-6 202-859-9 603-057-00	Acute Tox. 4; H302 Acute Tox. 4; H332	>= 0,1 - < 1

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. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.
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 immediately. 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 immediately.
If swallowed :	:	If swallowed, DO NOT induce vomiting. If vomiting occurs have person lean forward.



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			Rinse mouth the	or poison control centre immediately. Troughly with water. Thing by mouth to an unconscious person.
4.2 Most i	mportant symptoms a	nd e	effects, both acu	te and delayed
Risks	i	:	exposure. Causes severe l	eye damage. maging fertility. to organs through prolonged or repeated
			Causes digestiv	e tract burns.
4.3 Indica	tion of any immediate	med	lical attention ar	nd special treatment needed
Treat	ment	:	Treat symptoma	tically and supportively.
SECTION	N 5: Firefighting meas	sur	es	
5.1 Exting	uishing media			
Suital	ble extinguishing media	:	Water spray Alcohol-resistan Carbon dioxide Dry chemical	
Unsu media	itable extinguishing a	:	None known.	
5.2 Specia	al hazards arising from	the	substance or m	ixture
-	ific hazards during fire-	:		nbustion products may be a hazard to health.
Haza ucts	rdous combustion prod-	:	Carbon oxides Metal oxides Nitrogen oxides	(NOx)
5.3 Advice	e for firefighters			
Speci	ial protective equipment efighters	:		re, wear self-contained breathing apparatus. otective equipment.
Speci ods	ific extinguishing meth-	:	cumstances and Use water spray	ng measures that are appropriate to local cir- I the surrounding environment. I to cool unopened containers. aged containers from fire area if it is safe to do



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SECTION 6: Accidental release measures

6.1 Personal precautions, protec Personal precautions		e equipment and emergency procedures Use personal protective equipment. Follow safe handling advice (see section 7) and personal pro- tective equipment recommendations (see section 8).
6.2 Environmental precautions Environmental precautions	:	Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Prevent spreading over a wide area (e.g. by containment or oil barriers). Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained.

6.3 Methods and material for containment and cleaning up

bent. Local or national regulations may apply to releases and dis- posal of this material, as well as those materials and items 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.	 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 surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration. For large spills, provide dyking or other appropriate containment to keep material from spreading. If dyked material can be pumped, store recovered material in appropriate container.
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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

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	:	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.
		Do not get in eyes.



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Hygiene measures		:	 Wash skin thoroughly after handling. Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure assessment Keep container tightly closed. 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 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 contaminated clothing before re-use. The effective operation of a facility should include review of engineering controls, proper personal protective equipment, appropriate degowning and decontamination procedures, industrial hygiene monitoring, medical surveillance and the use of administrative controls. 				
7.2 Condition	ons for safe storage, i	inclu	uding any incomp	atibilities			
	ements for storage ind containers	:		abelled containers. Store locked up. Keep re in accordance with the particular national			
Advice	on common storage	:	Strong oxidizing a	tances and mixtures			
-	e end use(s) c use(s)	:	No data available				

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- ide	1310-58-3	OEL- RL STEL/C	4 mg/m3	ZA OEL		
	Further information: Occupational Exposure Limits - Restricted Limits For Hazardous Chemical Agents					

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



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Subst	ance 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
Disod hydra	ium EDTA, di- te	Workers	Inhalation	Long-term systemic effects	1,5 mg/m3
		Workers	Inhalation	Acute systemic ef- fects	3 mg/m3
		Workers	Inhalation	Long-term local ef- fects	1,5 mg/m3
		Workers	Inhalation	Acute local effects	3 mg/m3
		Consumers	Inhalation	Long-term local ef- fects	0,6 mg/m3
		Consumers	Inhalation	Acute local effects	1,2 mg/m3
		Consumers	Ingestion	Long-term systemic effects	25 mg/kg bw/day
Benzy	/l 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 effects	4 mg/kg bw/day
		Consumers	Skin contact	Acute systemic ef- fects	20 mg/kg bw/day
		Consumers	Ingestion	Long-term systemic effects	4 mg/kg bw/day
		Consumers	Ingestion	Acute systemic ef- fects	20 mg/kg bw/day

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
Disodium EDTA, dihydrate	Fresh water	2,5 mg/l
	Marine water	0,25 mg/l
	Sewage treatment plant	50 mg/l
	Soil	1,1 mg/kg dry weight (d.w.)
Benzyl 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
	Fresh water sediment	5,27 mg/kg
	Marine sediment	0,527 mg/kg
	Soil	0,456 mg/kg



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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)

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

	an	
Appearance Colour	÷	Aqueous solution light yellow
Odour	÷	No data available
Odour Threshold	:	No data available
рН	:	10,5 - 12,5
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)	:	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



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	Relative density		:	No data available	
	Density		:	0,950 - 1,150 g/c	m ³
	Solubility(ies) Water solubility Partition coefficient: n- octanol/water Auto-ignition temperature Decomposition temperature Viscosity Viscosity, kinematic		::	No data available Not applicable No data available No data available))
	Explosive properties		:	Not explosive	
	Oxidizing properties		:	The substance of	r mixture is not classified as oxidizing.
9.2	• • • • • • • • •	formation			
	Flammability (liquids)		:	Not applicable	
	Molecul	ar weight	:	No data available)
	Particle size		:	Not applicable	

SECTION 10: Stability and reactivity

I0.1 Reactivity Not classified as a reactivity hazard.							
0.2 Chemical stability Stable under normal conditions.							
10.3 Possibility of hazardous reaction	ons						
Hazardous reactions :	May form explosive dust-air mixture during processing, han- dling or other means. Can react with strong oxidizing agents.						
10.4 Conditions to avoid							
Conditions to avoid :	Heat, flames and sparks. Avoid dust formation.						
10.5 Incompatible materials							
Materials to avoid :	Oxidizing agents Acids						

10.6 Hazardous decomposition products

No hazardous decomposition products are known.





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050		44. Toxicological in	f		
SEC	TION	11: Toxicological in	TOR	mation	
11.1	Inform	ation on toxicologica	l ef	fects	
	Informa exposu	ation on likely routes of re	:	Inhalation Skin contact Ingestion Eye contact	
		t oxicity Il if swallowed.			
	Produc	<u>:t:</u>			
	Acute c	oral toxicity	:	Acute toxicity est Method: Calculat	mate: 1.818 mg/kg on method
	Acute i	nhalation toxicity	:	Acute toxicity esti Exposure time: 4 Test atmosphere Method: Calculati	h : dust/mist
	Compo	onents:			
	Enrofic	oxacin:			
	Acute c	oral toxicity	:	LD50 (Rabbit): 50	00 - 800 mg/kg
				LD50 (Rat): > 5.0	00 mg/kg
				LD50 (Mouse): >	5.000 mg/kg
	Acute c	dermal toxicity	:	LD50 (Rabbit): >	2.000 mg/kg
	Potass	ium hydroxide:			
	Acute c	oral toxicity	:	LD50 (Rat): 333 r	ng/kg
	Acute i	nhalation toxicity	:	Assessment: Cor	rosive to the respiratory tract.
	Disodi	um EDTA, dihydrate:			
	Acute c	oral toxicity	:	LD50 (Rat): 2.800) mg/kg
	Acute i	nhalation toxicity	:	LC50 (Rat, male) Exposure time: 6 Test atmosphere Method: OECD T	h
	Benzyl	alcohol:			
	-	oral toxicity	:	LD50 (Rat): 1.620) mg/kg
	Acute i	nhalation toxicity	:	LC50 (Rat): > 4,1 Exposure time: 4 Test atmosphere Method: OECD T	h



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.			
-	corrosion/irritation es severe burns.			
Com	ponents:			
Enro	floxacin:			
Resu	lt	:	No skin irritation	
Potas	ssium hydroxide:			
Speci		:	Rabbit	
Resu	lt	:	Corrosive after 3	minutes or less of exposure
	yl alcohol:			
Speci Metho		:	Rabbit	Jolina 404
Resu		:	OECD Test Guid No skin irritation	
	<u>ponents:</u> floxacin:			
Enro t Resu			Mild eye irritation	
	ssium hydroxide:			
Speci Resu		:	Rabbit Irreversible effec	ts on the eve
noou		•		
	dium EDTA, dihydrat	e:		
Speci Resu		:	Rabbit No eye irritation	
11690	n.	•	no eye imalion	
Benz	yl alcohol:			
Speci		:	Rabbit	
Metho Resu		:	OECD Test Guid Irritation to eves.	
Resu		:	Irritation to eyes,	reversing within 21 days
•	sensitisation	usati	211	
-	sensitisation lassified based on ava	ailable	information.	
Resp	iratory sensitisation			
-	lassified based on ava		information.	
<u>Com</u>	ponents:			
Enro	floxacin:			
T	Tu va a			a.t.

Test Type

: Maximisation Test



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	Exposure routes Species Result		:	DermalGuinea pigNot a skin sensitizer.					
	Potassium hydroxide: Test Type Exposure routes Species Result			 Intracutaneous test Skin contact Guinea pig negative 					
	Test Ty		:	Maximisation Tes	t				
	Exposu Specie Methoo Result Remar	Ł	:	Skin contact Guinea pig OECD Test Guide negative Based on data fro	eline 406 m similar materials				
	Test Ty	ure routes s	:	Maximisation Tes Skin contact Guinea pig OECD Test Guide negative					
		cell mutagenicity ssified based on availa	ble	information.					
		onents:							
		oxacin: oxicity in vitro	:	Test Type: Chrom Result: positive	osomal aberration				
	Genoto	oxicity in vivo	•	Test Type: Micror 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				
	Potass	sium hydroxide:							
		oxicity in vitro	:	Test Type: Bacter Result: negative	ial reverse mutation assay (AMES)				

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Diso	dium EDTA, dihydra	te:				
Genotoxicity in vitro		:	Result: negative	terial reverse mutation assay (AMES) e d on data from similar materials		
			Test Type: In vi Result: negative	tro mammalian cell gene mutation test e		
			Result: negative	omosome aberration test in vitro e d on data from similar materials		
Geno	toxicity in vivo	:	Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay) Species: Mouse Application Route: Ingestion Method: OECD Test Guideline 474 Result: negative			
Benz	yl alcohol:					
Geno	toxicity in vitro	:	Test Type: Bacterial reverse mutation assay (AMES) Result: negative			
Geno	toxicity in vivo	:	Test Type: Mammalian erythrocyte micronucleus test (in viv cytogenetic assay) Species: Mouse Application Route: Intraperitoneal injection Result: negative			
	nogenicity					
-	lassified based on ava conents:	ailable	information.			
	floxacin:					
Speci Applie	es cation Route sure time	:	Rat Oral 2 Years negative			
	cation Route sure time	:	Mouse Oral 2 Years negative			
Diso	dium EDTA, dihydra	te:				
Speci		:	Rat			

Rat
Ingestion
103 weeks
negative
Based on data from similar materials



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	Specie Applica	ation Route ure time	:	Mouse Ingestion 103 weeks OECD Test Guide negative	line 451
	Reproductive toxicity Suspected of damaging fertility				
	Compo	onents:			
	-	oxacin: on fertility	:		-
	Effects ment	on foetal develop-	:	Species: Rat Application Route Developmental To Result: Reduced f	: Oral oxicity: LOAEL: 210 mg/kg body weight oetal weight, No teratogenic effects al toxicity observed.
	_			Developmental To Result: No fetotox	oxicity: NOAEL: 25 mg/kg body weight icity, No teratogenic effects
	Reproc	ductive toxicity - As- ent	:		f adverse effects on sexual function and animal experiments.
	Disodi	um EDTA, dihydrate:			
	Effects	on fertility	:	Species: Rat Application Route Result: negative	eneration reproduction toxicity study : Ingestion on data from similar materials
	Effects ment	on foetal develop-	:	Test Type: Embry Species: Rat Application Route Result: negative	o-foetal development : Ingestion
	Benzy	l alcohol:			
	Effects	on fertility	:	Species: Rat Application Route Result: negative	y/early embryonic development : Ingestion on data from similar materials



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Effe me	ects on foetal develop- nt	Species: Mou	oute: Ingestion
	OT - single exposure rrosive to the respiratory tra	act.	
	OT - repeated exposure uses damage to organs thr	ouah prolonaed or	repeated exposure
	mponents:	ough proiongou or	
Tar	rofloxacin: rget Organs sessment	: cartilage, Tes : Causes dama exposure.	tis ge to organs through prolonged or repeated
Exp Tar	sodium EDTA, dihydrate: posure routes rget Organs sessment	 inhalation (du Respiratory T May cause da exposure. 	
Re	peated dose toxicity		
<u>Co</u>	mponents:		
Spe NO LO App Exp	rofloxacin: ecies DAEL AEL plication Route posure time rget Organs	: Rat : 36 mg/kg : 150 mg/kg : Oral : 13 Weeks : Testis	
NO LO Apj Exp	ecies DAEL AEL plication Route posure time rget Organs	: Dog : 3 mg/kg : 9,6 mg/kg : Oral : 13 Weeks : cartilage	
NÖ Apj Exp	ecies DAEL plication Route posure time marks	: Cat : 25 mg/kg : Oral : 30 Days : No significant	adverse effects were reported
Dis	odium EDTA, dihydrate:		
Spe	ecies DAEL	: Rat : 500 mg/kg	



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	oplication Route	:	Ingestion						
E	posure time	•	13 Weeks						
	pecies DAEL	:	Rat 0,03 mg/l						
	oplication Route	÷	inhalation (dust/m	nist/fume)					
	posure time ethod	:	4 Weeks OECD Test Guideline 412						
Be	enzyl alcohol:								
	pecies	:	Rat						
N	DAEL	:	1,072 mg/l						
	oplication Route	÷	inhalation (dust/m 28 Days	nist/fume)					
	ethod	:	OECD Test Guide	eline 412					
A	spiration toxicity								
No	ot classified based on availa	able	information.						
Ex	perience with human exp	osu	ire						
<u>C</u>	omponents:								
Er	nrofloxacin:								
In	gestion	:	Symptoms: Gastr tem effects, Sens	ointestinal disturbance, central nervous sys- itivity to light					
SECT	SECTION 12: Ecological information								
12.1 To	oxicity								
-	omponents:								
	nrofloxacin:								
	oxicity to fish	:	LC50 (Lepomis m Exposure time: 96	nacrochirus (Bluegill sunfish)): 79,5 mg/l 6 h					
			LC50 (Oncorhync Exposure time: 96	chus mykiss (rainbow trout)): > 196 mg/l 6 h					
			LC50 (Oryzias lat Exposure time: 96	ipes (Japanese medaka)): > 100 mg/l 6 h					
	oxicity to daphnia and other juatic invertebrates	:	EC50 (Hyalella az Exposure time: 96	zteca (Amphipod)): > 206 mg/l 6 h					
			EC50 (Daphnia m Exposure time: 48	nagna (Water flea)): 79,9 mg/l 3 h					
	oxicity to algae/aquatic ants	:	EC50 (Pseudokin mg/l Exposure time: 72	chneriella subcapitata (green algae)): 3,1 2 h					
			EC50 (Microcysti	s aeruginosa (blue-green algae)): 0,049 mg/l					



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			Exposure time: 5	d
M-Fac icity)	tor (Acute aquatic tox-	:	10	
	y to daphnia and other c invertebrates (Chron- city)	:	NOEC: 9,8 mg/l Exposure time: 2 ⁻ Species: Daphnia	l d magna (Water flea)
			NOEC: 5 mg/l Exposure time: 2′ Species: Daphnia	l d magna (Water flea)
			LOEC: 15 mg/l Exposure time: 2′ Species: Daphnia	l d magna (Water flea)
M-Fac toxicity	tor (Chronic aquatic /)	:	10	
	ium EDTA, dihydrate:			
	y to fish	:	Exposure time: 96	acrochirus (Bluegill sunfish)): > 100 mg/l 5 h on data from similar materials
	y to daphnia and other c invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: DIN 384	
Toxicit plants	y to algae/aquatic	:	mg/l Exposure time: 72 Method: OECD T	
			mg/l Exposure time: 72 Method: OECD T	
Toxicit	y to microorganisms	:	EC10 (activated s Exposure time: 30 Method: OECD T	
	y to daphnia and other c invertebrates (Chron- city)	:	NOEC: 25 mg/l Exposure time: 2' Species: Daphnia	l d magna (Water flea)
Benzy	l alcohol:			
-	y to fish	:	LC50 (Pimephale Exposure time: 96	s promelas (fathead minnow)): 460 mg/l 5 h
	y to daphnia and other c invertebrates	:	EC50 (Daphnia m Exposure time: 48	nagna (Water flea)): 230 mg/l 3 h



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				Method: OECD T	est Guideline 202		
	Toxicity to algae/aquatic plants		:	EC50 (Pseudokin mg/l Exposure time: 72 Method: OECD T			
				NOEC (Pseudokirchneriella subcapitata (green alga mg/l Exposure time: 72 h Method: OECD Test Guideline 201			
		y to daphnia and other c invertebrates (Chron- ity)		NOEC: 51 mg/l Exposure time: 2 ⁻ Species: Daphnia Method: OECD T	a magna (Water flea)		
12.2	2 Persis	tence and degradabil	lity				
	Comp	onents:					
		um EDTA, dihydrate: Iradability	:	Result: Not readil Biodegradation: 28 Exposure time: 28 Method: OECD T	2 %		
	-	l alcohol: Iradability	:	Result: Readily bi Biodegradation: Exposure time: 14	92 - 96 %		
12.3	3 Bioaco	cumulative potential					
	<u>Comp</u>	onents:					
	-	oxacin: n coefficient: n- l/water	:	log Pow: 0,5			
		um EDTA, dihydrate: umulation	:	Bioconcentration	s macrochirus (Bluegill sunfish) factor (BCF): < 500 on data from similar materials		
	Partitio octano	n coefficient: n- I/water	:	log Pow: -4,3			
	-	l alcohol: n coefficient: n- l/water	:	log Pow: 1,05			



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12.4 Mobi	ility in soil						
<u>Com</u>	ponents:						
Distri	floxacin: bution among environ- al compartments	:	Koc: 5,55				
12.5 Resu	llts of PBT and vPvB a	isse	ssment				
Prod	uct:						
Asse	ssment	:	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.				
12.6 Othe	r adverse effects						
Prod	uct:						
Endo tial	crine disrupting poten-	:	ered to have end REACH Article 5	ixture does not contain components consid- ocrine disrupting properties according to 7(f) or Commission Delegated regulation or Commission Regulation (EU) 2018/605 at higher.			
SECTION	N 13: Disposal consi	der	ations				

13.1 Waste treatment methods	

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.
Contaminated packaging	:	Do not dispose of waste into sewer. 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 1814			
ADR	:	UN 1814			
RID	:	UN 1814			
IMDG	:	UN 1814			
ΙΑΤΑ	:	UN 1814			
14.2 UN proper shipping name					

ADN

: POTASSIUM HYDROXIDE SOLUTION



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	ADR			POTASSIUM HY	DROXIDE SOLUTION					
	RID			: POTASSIUM HYDROXIDE SOLUTION						
	IMDG		:	: POTASSIUM HYDROXIDE SOLUTION (Enrofloxacin)						
	ΙΑΤΑ			: Potassium hydroxide solution						
		port hazard class(es)	•							
	•			Class	Subsidiary risks					
	ADN			8						
	ADR			8						
	RID			8						
	IMDG			8						
	IATA		:	8						
		ng group	•							
	ADN	5.5								
	Packin Classif	g group ication Code I Identification Number	:	II C5 80 8						
	Classif Hazard Labels	g group ication Code I Identification Number restriction code	:	II C5 80 8 (E)						
	RID Packin Classif	g group ication Code I Identification Number	:	II C5 80 8						
	IMDG Packing Labels EmS C		:	II 8 F-A, S-B						
		Cargo) g instruction (cargo	:	855						
	aircraft Packin) g instruction (LQ)		Y840						
		g group	:	II Corrosive						
	Packin	Passenger) g instruction (passen-	:	851						
	ger airo	craft) g instruction (LQ)		Y840						
		g group	:	II Corrosive						



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14.5 Environmental hazards									
_	DN Invironmentally hazardous	: yes							
_	DR invironmentally hazardous	: yes							
_	RID	: yes							
	NDG 1arine pollutant	: yes							
14.6 \$	14.6 Special precautions for user								
b S	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

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Remarks
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: 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 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.		



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H373 H400 H410		:	May cause damage to organs through prolonged or repeated exposure. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.				
Full text of other abbreviations							
	c Acute c Chronic am. rit. corr. corr. RE		Acute toxicity Short-term (acute) aquatic hazard Long-term (chronic) aquatic hazard Serious eye damage Eye irritation Corrosive to metals Reproductive toxicity Skin corrosion Specific target organ toxicity - repeated exposure South Africa. The Regulations for Hazardous Chemical Agents, Occupational Exposure Limits				
ZA OE	EL / OEL- RL STEL/C	:					

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland 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 - (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; 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



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			earch results and European Chemicals Agen- europa.eu/
Classification of the mixture:		ure:	Classification procedure:
Acute	Tox. 4	H302	Calculation method
Skin C	orr. 1A	H314	Calculation method
Eye Da	am. 1	H318	Calculation method
Repr. 2	2	H361f	Calculation method
STOT	RE 1	H372	Calculation method
Aquati	c Acute 1	H400	Calculation method
Aquati	c Chronic 1	H410	Calculation method

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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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