



Version 4.0	Revision Date: 06.07.2024		S Number: 3105-00009	Date of last issue: 06.04.2024 Date of first issue: 13.10.2021					
SECTION	SECTION 1. PRODUCT AND COMPANY IDENTIFICATION								
Produ	Product name		Enrofloxacin Liq	uid (20%) Formulation					
Manu	facturer or supplier	s detai	ls						
Comp	bany	:	MSD						
Address		:	Rua Coronel Bento Soares, 530 Cruzeiro - Sao Paulo - Brazil CEP 12730-340						
Telep	hone	:	908-740-4000						
Emer	gency telephone	:	1-908-423-6000						
E-ma	E-mail address		EHSDATASTEWARD@msd.com						
Reco	Recommended use of the chemical and restrictions on use								
	mmended use ictions on use	:	Veterinary produ Not applicable	ict					

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

GHS Classification in acco	rdance with ABNT NBR 14725 Standard
Acute toxicity (Oral)	: Category 4

Acute toxicity (Oral)	·	Calegory 4
Skin corrosion	:	Category 1A
Serious eye damage	:	Category 1
Reproductive toxicity	:	Category 2
Specific target organ toxicity - repeated exposure	:	Category 1 (cartilage, Testis)
Short-term (acute) aquatic hazard	:	Category 1
Long-term (chronic) aquatic hazard	:	Category 1

GHS label elements in accordance with ABNT NBR 14725 Standard

Hazard pictograms				×
Signal Word	: Dang	ger		



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Hazard Statements		H314 Causes s H361f Suspect H372 Causes o prolonged or re	<ul> <li>H302 Harmful if swallowed.</li> <li>H314 Causes severe skin burns and eye damage.</li> <li>H361f Suspected of damaging fertility.</li> <li>H372 Causes damage to organs (cartilage, Testis) through prolonged or repeated exposure.</li> <li>H410 Very toxic to aquatic life with long lasting effects.</li> </ul>			
Precautionary Statements		P273 Avoid rel P280 Wear pro	<ul> <li>Prevention:</li> <li>P201 Obtain special instructions before use.</li> <li>P273 Avoid release to the environment.</li> <li>P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.</li> </ul>			
		immediately all shower. Immed P305 + P351 + water for sever				

#### Other hazards which do not result in classification

Corrosive to the respiratory tract.

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

#### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture	:	Mixture
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Components							
Chemical name	CAS-No.	Classification	Concentration (% w/w)				
Enrofloxacin	93106-60-6	Acute toxicity (Oral), Category 4 Acute toxicity (Der- mal), Category 5 Reproductive toxicity, Category 2 Specific target organ toxicity - repeated exposure (cartilage, Testis), Category 1 Short-term (acute) aquatic hazard, Category 1 Long-term (chronic) aquatic hazard, Category 1	>= 20 -< 25				
Potassium hydroxide	1310-58-3	Corrosive to Metals, Category 1 Acute toxicity (Oral), Category 4	>= 5 -< 10				



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			Skin corrosion, Category 1A Serious eye damage, Category 1		
Disoc	lium EDTA, dihydrate	6381-92-6	Acute toxicity (Oral), Category 5 Acute toxicity (Inhala- tion), Category 4 Specific target organ toxicity - repeated exposure (Respiratory Tract), Category 2	>= 1 -< 5	
Benz	yl alcohol	100-51-6	Acute toxicity (Oral), Category 4 Acute toxicity (Inhala- tion), Category 4 Eye irritation, Category 2A	>= 0,1 -< 1	

#### SECTION 4. FIRST AID MEASURES

General advice	:	In the case of accident or if you feel unwell, seek medical advice immediately.
		When symptoms persist or in all cases of doubt seek medical advice.
If inhaled	:	If inhaled, remove to fresh air.
		If not breathing, give artificial respiration.
		If breathing is difficult, give oxygen.
In case of skin contact	:	Get medical attention immediately. 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	:	for at least 15 minutes.
		If easy to do, remove contact lens, if worn.
If any all and a		Get medical attention immediately.
If swallowed	:	If swallowed, DO NOT induce vomiting.
		If vomiting occurs have person lean forward. Call a physician or poison control center immediately.
		Rinse mouth thoroughly with water.
		Never give anything by mouth to an unconscious person.
Most important symptoms	÷	Harmful if swallowed.
and effects, both acute and		Causes serious eye damage.
delayed		Suspected of damaging fertility.
		Causes damage to organs through prolonged or repeated exposure.
		Causes severe burns.
		Causes digestive tract burns.
		5



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	Protection of first-aiders		:	<ul> <li>Corrosive to respiratory system.</li> <li>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).</li> </ul>		
	Notes	to physician	:		cally and supportively.	
SEC	TION 5	. FIRE-FIGHTING ME	ASL	JRES		
	Suitabl	e extinguishing media	:	Water spray Alcohol-resistant Carbon dioxide (C Dry chemical		
		able extinguishing	:	None known.		
	media Specifi fighting	c hazards during fire	:	Exposure to comb	oustion products may be a hazard to health.	
		lous combustion prod-	:	Carbon oxides Metal oxides Nitrogen oxides (I	NOx)	
	Specifi ods	c extinguishing meth-	:	cumstances and t Use water spray t	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	
		l protective equipment fighters	:	Evacuate area. In the event of fire	e, wear self-contained breathing apparatus. rective equipment.	
SEC	TION 6	. ACCIDENTAL RELE	AS	E MEASURES		
	tive eq	al precautions, protec- uipment and emer- procedures	:		ective equipment. ing advice (see section 7) and personal ent recommendations (see section 8).	
	Enviroi	nmental precautions	:	Prevent spreading oil barriers). Retain and dispos	akage or spillage if safe to do so. g over a wide area (e.g., by containment or 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	t absorbent material. <sup>i</sup> dust in the air (i.e., clearing dust surfaces air). puld not be allowed to accumulate on a may form an explosive mixture if they are	

surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration. For large spills, provide diking or other appropriate containment to keep material from spreading. If diked material can be pumped, store recovered material in appropriate container.

Clean up remaining materials from spill with suitable



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		disposal of this employed in th determine whic Sections 13 an	al regulations may apply to releases and material, as well as those materials and items e cleanup of releases. You will need to ch regulations are applicable. d 15 of this SDS provide information regarding national requirements.
ECTION	7. HANDLING AND S	TORAGE	
Techr	nical measures	causing an exp Provide adequ	y may accumulate and ignite suspended dust blosion. ate precautions, such as electrical grounding or inert atmospheres.
Local	/Total ventilation		tilation is unavailable, use with local exhaust
	e on safe handling	: Do not get on s Do not breathe Do not swallow Do not swallow Do not get in e Wash skin thor Handle in acco practice, based assessment Keep contained Keep contained Keep away from Take precautio Do not eat, drin Take care to pre environment.	mist or vapors. verse mist or vapors. verse mist or vapors. roughly after handling. roughly after handling. roughly after handling. roughly closed industrial hygiene and safety d on the results of the workplace exposure r tightly closed. generation and accumulation. r closed when not in use. m heat and sources of ignition. m heat and sources of igni
Hygie	ne measures	flushing systen place. When using do Wash contamin The effective o engineering co appropriate de industrial hygie	chemical is likely during typical use, provide ey ns and safety showers close to the working o not eat, drink or smoke. hated clothing before re-use. peration of a facility should include review of ntrols, proper personal protective equipment, gowning and decontamination procedures, ene monitoring, medical surveillance and the trative controls.
Cond	itions for safe storage	: Keep in proper Store locked u Keep tightly clo	ly labeled containers. p.
Mater	rials to avoid	: Do not store w Strong oxidizin	ith the following product types: g agents ubstances and mixtures



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#### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis			
Enrofloxacin	93106-60-6	TWA	0.2 mg/m3 (OEB 2)	Internal			
Potassium hydroxide	1310-58-3	С	2 mg/m³	ACGIH			
Engineering measures :	technologies t less quick con All engineerin design and op protect produc	ppropriate engineering controls and manufacturing ologies to control airborne concentrations (e.g., drip- uick connections). gineering controls should be implemented by facility n and operated in accordance with GMP principles to ct products, workers, and the environment. atory operations do not require special containment.					
Personal protective equipmen	t						
Respiratory protection : Filter type :	exposure asserved recommended	If adequate local exhaust ventilation is not available or exposure assessment demonstrates exposures outside the recommended guidelines, use respiratory protection. Particulates type					
Hand protection Material :	Chemical-resistant gloves						
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 and body protection :	Work uniform	or laboratory co	at.				

#### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	Aqueous solution
Color	:	light yellow
Odor	:	No data available
Odor 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

### SAFETY DATA SHEET



## Enrofloxacin Liquid (20%) Formulation

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	Flamm	ability (solid, gas)	:	May form explos handling or othe	ive dust-air mixture during processing, means.
	Flamm	ability (liquids)	:	Not applicable	
		explosion limit / Upper ability limit	:	No data available	9
		explosion limit / Lower ability limit	:	No data available	9
	Vapor	pressure	:	No data available	9
	Relativ	e vapor density	:	No data available	9
	Relativ	e density	:	No data available	9
	Density	/	:	0,950 - 1,150 g/c	m³
	Solubil Wat	ity(ies) ter solubility	:	No data available	9
	Partitio octano	n coefficient: n-	:	Not applicable	
		nition temperature	:	No data available	9
	Decom	position temperature	:	No data available	9
	Viscosi Visc	ty cosity, kinematic	:	No data available	9
	Explos	ive properties	:	Not explosive	
	Oxidizi	ng properties	:		r mixture is not classified as oxidizing.
	Molecu	ılar weight	:	No data available	9
	Particle Particle	e characteristics e size	:	Not applicable	

#### SECTION 10. STABILITY AND REACTIVITY

Reactivity Chemical stability Possibility of hazardous reac- tions	<ul> <li>Not classified as a reactivity hazard.</li> <li>Stable under normal conditions.</li> <li>May form explosive dust-air mixture during processing, handling or other means.</li> <li>Can react with strong oxidizing agents.</li> </ul>	
Conditions to avoid	: Heat, flames and sparks. Avoid dust formation.	
Incompatible materials	: Oxidizing agents	



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Haza produ	rdous decomposition	:	Acids No hazardous d	ecomposition products are known.
ECTION	11. TOXICOLOGICAL	INFC	RMATION	
Inforr expo	nation on likely routes o sure	f:	Inhalation Skin contact Ingestion Eye contact	
	e toxicity hful if swallowed.			
Prod				
	e oral toxicity	:	Acute toxicity est Method: Calculat	imate: 1.806 mg/kg ion method
Acute	e inhalation toxicity	:	Acute toxicity est Exposure time: 4 Test atmosphere Method: Calculat	h : dust/mist
Acute	e dermal toxicity	:	Acute toxicity est Method: Calculat	imate: > 5.000 mg/kg ion method
<u>Com</u>	ponents:			
Enro	floxacin:			
Acute	e oral toxicity	:	LD50 (Rabbit): 5	00 - 800 mg/kg
			LD50 (Rat): > 5.0	000 mg/kg
			LD50 (Mouse): >	5.000 mg/kg
Acute	e dermal toxicity	:	LD50 (Rabbit): >	2.000 mg/kg
Pota	ssium hydroxide:			
Acute	e oral toxicity	:	LD50 (Rat): 333	mg/kg
Acute	e inhalation toxicity	:	Assessment: Co	rosive to the respiratory tract.
	dium EDTA, dihydrate: e oral toxicity	:	LD50 (Rat): 2.80	0 mg/kg
Acute	e inhalation toxicity	:	LC50 (Rat, male) Exposure time: 6 Test atmosphere Method: OECD 1	h
	<b>:yl alcohol:</b> e oral toxicity	:	LD50 (Rat): 1.62	0 mg/kg



rsion )	Revision Date: 06.07.2024		DS Number: 43105-00009	Date of last issue: 06.04.2024 Date of first issue: 13.10.2021	
Acute	inhalation toxicity	:	LC50 (Rat): > 4,1 Exposure time: 4 Test atmosphere: Method: OECD T	h	
	corrosion/irritation es severe burns.				
Com	oonents:				
Enro	loxacin:				
Resul	t	:	No skin irritation		
Potas	sium hydroxide:				
Speci		:	Rabbit		
Resul	t	:	Corrosive after 3	minutes or less of exposure	
Benz	yl alcohol:				
Speci		:	Rabbit		
Metho Resul		÷	OECD Test Guide No skin irritation	eline 404	
<u>Com</u> Enrot	es serious eye damage. ponents: floxacin:				
Resul	t	:	Mild eye irritation		
	sium hydroxide:				
Speci Resul		:	Rabbit Irreversible effect	s on the eve	
Resul		•			
Disod	lium EDTA, dihydrate:				
Speci		:			
Resul	t	:	No eye irritation		
Benz	yl alcohol:				
Speci		:	Rabbit		
Resul Metho		:	Irritation to eyes, OECD Test Guide	reversing within 21 days eline 405	
-	iratory or skin sensitiz	atic	on		
	sensitization	ble	information		
	assified based on availa	adie	iniormation.		
Resp	Respiratory sensitization				

Not classified based on available information.



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<u>Comp</u>	onents:	
Enrofl	oxacin:	
Test T	vpe	: Maximization Test
	s of exposure	: Dermal
Specie		: Guinea pig
Result		: Not a skin sensitizer.
Potas	sium hydroxide:	
Test T	vpe	: Intracutaneous test
	s of exposure	: Skin contact
Specie		: Guinea pig
Result		: negative
Disod	ium EDTA, dihydra	ite:
Test T	-	: Maximization Test
	s of exposure	: Skin contact
Specie		: Guinea pig
Metho		: OECD Test Guideline 406
Result		: negative
Remai	ks	: Based on data from similar materials
Benzy	l alcohol:	
Test T	vpe	: Maximization Test
	s of exposure	: Skin contact
Specie		: Guinea pig
Metho		: OECD Test Guideline 406
Result		: negative
Germ	cell mutagenicity	
	assified based on av	ailable information.
<u>Comp</u>	onents:	
-	oxacin:	
Genote	oxicity in vitro	: Test Type: Chromosomal aberration Result: positive
Genote	oxicity in vivo	: Test Type: Micronucleus test
		Species: Mouse Result: negative
		Test Type: Mammalian bone marrow sister chromatid ex
		change
		Species: Hamster
		Result: negative
		Test Type: Chromosomal aberration
		Test Type: Chromosomal aberration Species: Rat Result: negative

#### Potassium hydroxide:



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Genot	oxicity in vitro	: Test Type: E Result: nega	acterial reverse mutation assay (AMES) tive
Disod	ium EDTA, dihydra	te:	
Genot	oxicity in vitro	Result: nega	acterial reverse mutation assay (AMES) tive ased on data from similar materials
		Test Type: Ir Result: nega	n vitro mammalian cell gene mutation test tive
		Result: nega	Chromosome aberration test in vitro tive ased on data from similar materials
Genotoxicity in vivo		cytogenetic a Species: Mo Application F	use Route: Ingestion CD Test Guideline 474
Benzy	l alcohol:		
Genot	oxicity in vitro	: Test Type: E Result: nega	acterial reverse mutation assay (AMES) tive
Genot	oxicity in vivo	cytogenetic a Species: Mo	use Route: Intraperitoneal injection

#### Carcinogenicity

Not classified based on available information.

#### Components:

Enrofloxacin: Species Application Route Exposure time Result	:	Rat Oral 2 Years negative
Species Application Route Exposure time Result	:	Mouse Oral 2 Years negative

#### Disodium EDTA, dihydrate:

Species	:	Rat
Application Route	:	Ingestion
Exposure time	:	103 weeks



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	Result Remark	۲S	:	negative Based on data fro	m similar materials
S A E N	Species Applica	tion Route ire time		Mouse Ingestion 103 weeks OECD Test Guide negative	eline 451
	-	<b>luctive toxicity</b> ted of damaging fertilit	у.		
<u>(</u>	Compo	onents:			
		oxacin: on fertility	:		-
E	Effects	on fetal development	:	Result: Reduced f Remarks: Materna Test Type: Develo Species: Rabbit Application Route	: Oral oxicity: LOAEL: 210 mg/kg body weight etal weight., No teratogenic effects. al toxicity observed. opment : Oral
	Reprod	luctive toxicity - As- ent	:	Result: No fetotox Some evidence of	oxicity: NOAEL: 25 mg/kg body weight icity., No teratogenic effects. f adverse effects on sexual function and animal experiments.
	Disodi	um EDTA, dihydrate:			
		on fertility	:	Species: Rat Application Route Result: negative	eneration reproduction toxicity study : Ingestion on data from similar materials
E	Effects	on fetal development	:	Test Type: Embry Species: Rat Application Route Result: negative	o-fetal development : Ingestion
	-	<b>alcohol:</b> on fertility	:	Test Type: Fertilit	y/early embryonic development



ersion .0	Revision Date: 06.07.2024		OS Number: 43105-00009	Date of last issue: 06.04.2024 Date of first issue: 13.10.2021
			Species: Rat Application Route Result: negative Remarks: Based	e: Ingestion on data from similar materials
Effect	s on fetal development	:	Test Type: Embr Species: Mouse Application Route Result: negative	yo-fetal development e: Ingestion
	-single exposure lassified based on availa	able	information.	
STOT	-repeated exposure			
	• •	artila	age, Testis) throug	h prolonged or repeated exposure.
Com	oonents:			
Enrof	floxacin:			
-	et Organs ssment	:	cartilage, Testis Causes damage exposure.	to organs through prolonged or repeated
Disod	dium EDTA, dihydrate:			
Targe	es of exposure et Organs ssment	:	inhalation (dust/n Respiratory Trac May cause dama exposure.	
Repe	ated dose toxicity			
Com	oonents:			
Enro	floxacin:			
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	
	EL cation Route sure time	:	Cat 25 mg/kg Oral 30 Days No significant ad	verse effects were reported



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Diso	dium EDTA, dihydrate:			
Spec NOA Appli	cies	:	Rat 500 mg/kg Ingestion 13 Weeks	
LOAI Appli Expo	Species LOAEL Application Route Exposure time Method		Rat 0,03 mg/l inhalation (dust/r 4 Weeks OECD Test Guid	
Benz	zyl alcohol:			
NOA Appli Expo	Species NOAEL Application Route Exposure time Method		Rat 1,072 mg/l inhalation (dust/r 28 Days OECD Test Guid	
Aspi	ration toxicity			
Not o	classified based on availa	ble	information.	
Expe	erience with human exp	οςι	ire	
Com	ponents:			
Enro Inges	f <b>loxacin:</b> stion	:	Symptoms: Gast tem effects, Sen	rointestinal disturbance, central nervous sys- sitivity to light
SECTION	12. ECOLOGICAL INFO	ORN	ATION	
Ecot	oxicity			
	ponents:			
Enro	floxacin:			
Toxic	city to fish	:	LC50 (Lepomis r Exposure time: 9	nacrochirus (Bluegill sunfish)): 79,5 mg/l 6 h
			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
	city to daphnia and other tic 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
Toxic plant	city to algae/aquatic s	:	EC50 (Pseudoki mg/l	chneriella subcapitata (green algae)): 3,1
			14 / 19	



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				Exposure time: 72	h.
				EC50 (Microcystis Exposure time: 5	s aeruginosa (blue-green algae)): 0,049 mg/l d
		or (Acute aquatic tox-	:	10	
To ao	icity) Toxicity to daphnia and other aquatic invertebrates (Chron-		:	NOEC (Daphnia n Exposure time: 21	nagna (Water flea)): 9,8 mg/l d
	toxicit	y)		NOEC (Daphnia n Exposure time: 21	nagna (Water flea)): 5 mg/l d
				LOEC (Daphnia m Exposure time: 21	nagna (Water flea)): 15 mg/l d
	I-Facto xicity)	or (Chronic aquatic	:	10	
D	isodiu	Im EDTA, dihydrate:			
Τ	oxicity	to fish	:	Exposure time: 96	acrochirus (Bluegill sunfish)): > 100 mg/l 5 h on data from similar materials
		to daphnia and other invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: DIN 3841	
	Toxicity to algae/aquatic plants		:	mg/l Exposure time: 72 Method: OECD Te	
				mg/l Exposure time: 72 Method: OECD Te	
a	quatic	to daphnia and other invertebrates (Chron-	:	NOEC (Daphnia n Exposure time: 21	nagna (Water flea)): 25 mg/l d
	toxicit oxicity	y) to microorganisms	:	EC10 (activated s Exposure time: 30 Method: OECD Te	
В	enzyl	alcohol:			
Т	oxicity	to fish	:	LC50 (Pimephales Exposure time: 96	s promelas (fathead minnow)): 460 mg/l s h
		to daphnia and other invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: OECD Te	



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	Toxicity to algae/aquatic plants		:	EC50 (Pseudokiro mg/l Exposure time: 72 Method: OECD Te	
				NOEC (Pseudokir mg/l Exposure time: 72 Method: OECD Te	
		v to daphnia and other invertebrates (Chron- ity)	:	NOEC (Daphnia r Exposure time: 21 Method: OECD Te	
	Persist	ence and degradabili	ity		
	Compo	onents:			
		um EDTA, dihydrate: radability	:	Result: Not readily Biodegradation: 2 Exposure time: 28 Method: OECD Te	2 %
	-	<b>alcohol:</b> radability	:	Result: Readily bio Biodegradation: S Exposure time: 14	92 - 96 %
	Bioacc	umulative potential			
	Compo	onents:			
	Enrofic Partition octanol	n coefficient: n-	:	log Pow: 0,5	
		um EDTA, dihydrate:			
	Bioaccu	umulation	:	<b>Bioconcentration</b>	macrochirus (Bluegill sunfish) factor (BCF): < 500 on data from similar materials
	Partitio octanol	n coefficient: n- /water	:	log Pow: -4,3	
	-	<b>alcohol:</b> n coefficient: n- /water	:	log Pow: 1,05	
	Mobilit	y in soil			
	Compo	onents:			
	Enrofic Distribu	oxacin: Ition among environ-	:	Koc: 5,55	

#### SAFETY DATA SHEET



## Enrofloxacin Liquid (20%) Formulation

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menta	al compartments		
•	<b>adverse effects</b> ta available		
ECTION	13. DISPOSAL CONS	SIDERATIONS	
	13. DISPOSAL CONS	SIDERATIONS	
Dispo		: Do not dispose	of waste into sewer. ccordance with local regulations.

#### International Regulations

UNRTDG UN number Proper shipping name Class Packing group Labels Environmentally hazardous	:	UN 1814 POTASSIUM HYDROXIDE SOLUTION 8 II 8 no
IATA-DGR UN/ID No. Proper shipping name Class Packing group Labels Packing instruction (cargo aircraft) Packing instruction (passen- ger aircraft)		UN 1814 Potassium hydroxide solution 8 II Corrosive 855 851
IMDG-Code UN number Proper shipping name Class Packing group Labels EmS Code Marine pollutant	:	UN 1814 POTASSIUM HYDROXIDE SOLUTION (Enrofloxacin) 8 II 8 F-A, S-B yes

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

Not applicable for product as supplied.

#### **Domestic regulation**

ANTT		
UN number	:	UN 1814
Proper shipping name	:	POTASSIUM HYDROXIDE SOLUTION
Class	:	8



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Labe	ing group ls rd Identification Numbe	: II : 8 r : 80	
Spec	ial precautions for us	er	
based Shee	d upon the properties of	f the unpackaged mate fications may vary by r	for informational purposes only, and solely erial as it is described within this Safety Data node of transportation, package sizes, and
SECTION	15. REGULATORY IN	FORMATION	
mixtu	ure	-	gislation specific for the substance or
Natio (LINA	nal List of Carcinogenic ACH)	c Agents for Humans -	: Not applicable
Brazi Police	I. List of chemicals cont e	rolled by the Federal	: Potassium hydroxide
The i	ngredients of this pro	duct are reported in	the following inventories:
AICS		: not determined	
DSL		: not determined	
IECS	С	: not determined	

#### **SECTION 16. OTHER INFORMATION**

Revision Date	: 06.07.202	4
Date format	: dd.mm.yyy	/у

#### Further information

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

#### Full text of other abbreviations

ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)
ACGIH / C	:	Ceiling limit

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized Sys-



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tem; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative: WHMIS - Workplace Hazardous Materials Information System

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless 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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