

Enrofloxacin Liquid Formulation

VersionRevision Date:SDS Number:Date of last issue: 06.04.20244.006.07.202410223966-00008Date of first issue: 12.11.2021	-
--	---

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name	:	Enrofloxacin Liquid Formulation
Manufacturer or supplier's o	deta	nils
Company name of supplier	:	MSD
Address	:	126 E. Lincoln Avenue
		Rahway, New Jersey U.S.A. 07065
Telephone	:	908-740-4000
Emergency telephone	:	1-908-423-6000
E-mail address	:	EHSDATASTEWARD@msd.com
Recommended use of the chemical and restrictions on use		
Recommended use	:	Veterinary product
Restrictions on use	:	Not applicable

SECTION 2. HAZARDS IDENTIFICATION

:	Category 2
:	Category 2A
:	Category 2
:	Category 1 (cartilage, Testis)
:	
:	Danger
:	H315 Causes skin irritation. H319 Causes serious eye irritation. H361f Suspected of damaging fertility. H372 Causes damage to organs (cartilage, Testis) through pro- longed or repeated exposure.
:	 Prevention: P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P260 Do not breathe mist or vapors. P264 Wash skin thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P280 Wear protective gloves/ protective clothing/ eye protection/





Version 4.0	Revision Date: 06.07.2024	SDS Number: 10223966-00008	Date of last issue: 06.04.2024 Date of first issue: 12.11.2021
		face protection.	
		P305 + P351 + for several minu to do. Continue P308 + P313 IF attention. P332 + P313 If tion. P337 + P313 If tion.	ON SKIN: Wash with plenty of water. P338 IF IN EYES: Rinse cautiously with water ites. Remove contact lenses, if present and easy rinsing. exposed or concerned: Get medical advice/ skin irritation occurs: Get medical advice/ atten- eye irritation persists: Get medical advice/ atten- ake off contaminated clothing and wash it before
		Storage: P405 Store lock	ed up.
		Disposal: P501 Dispose o posal plant.	f contents/ container to an approved waste dis-

Other hazards

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

Mixture

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

- · · · · ·		
Substance / Mixt	uro .	

Components	
------------	--

Chemical name	CAS-No.	Concentration (% w/w)
Enrofloxacin	93106-60-6	>= 5 -< 10
Potassium hydroxide	1310-58-3	>= 1 -< 2
Benzyl alcohol	100-51-6	>= 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. 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.



Version 4.0	Revision Date: 06.07.2024	SDS Number: 10223966-00008	Date of last issue: 06.04.2024 Date of first issue: 12.11.2021
lf sw	allowed	Get medical atte	D NOT induce vomiting. ention. proughly with water.
	t important symptoms effects, both acute and yed	: Causes skin irri Causes serious Suspected of da Causes damage	tation.
Prot	ection of first-aiders	and use the rec	ders should pay attention to self-protection, ommended personal protective equipment tial for exposure exists (see section 8).
Note	es to physician		atically and supportively.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	:	Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical
Unsuitable extinguishing media	:	None known.
Specific hazards during fire fighting	:	Exposure to combustion products may be a hazard to health.
Hazardous combustion prod- ucts	:	Carbon oxides Metal oxides
Specific extinguishing meth- ods	:	Use extinguishing measures that are appropriate to local cir- cumstances and the surrounding environment. Use water spray to cool unopened containers. Remove undamaged containers from fire area if it is safe to do so. Evacuate area.
Special protective equipment for fire-fighters	:	In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- : tive equipment and emer- gency procedures	Use personal protective equipment. Follow safe handling advice (see section 7) and personal protective equipment recommendations (see section 8).
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.
Methods and materials for : containment and 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

Version



Date of last issue: 06.04.2024

Enrofloxacin Liquid Formulation

SDS Number:

Revision Date:

4.0	06.07.2024	10223966-00008 Date of first issue: 12.11.2021
		released into the atmosphere in sufficient concentration. For large spills, provide diking or other appropriate containment to keep material from spreading. If diked materia can be pumped, store recovered material in appropriate container. Clean up remaining materials from spill with suitable absorbent. Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable. Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.
SECTION	7. HANDLING AND S	ORAGE
	nical 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	: Use only with adequate ventilation.
	e on safe handling	 Do not get on skin or clothing. Do not breathe mist or vapors. 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 assessment 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.
Hygie	ene measures	 If exposure to chemical is likely during typical use, provide eye flushing systems and safety showers close to the working place. When using do not eat, drink or smoke. 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.
Cond	itions for safe storage	 Keep in properly labeled containers. Store locked up. Store in accordance with the particular national regulations.
Mater	rials to avoid	 Do not store with the following product types: Strong oxidizing agents Self-reactive substances and mixtures Organic peroxides Explosives





4.0 06.07.2024 10223966-00008 Date of first issue: 12.11.2021	Version	Revision Date:	SDS Number:	Date of last issue: 06.04.2024
	4.0	06.07.2024	10223966-00008	Date of first issue: 12.11.2021

Gases

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	VLE-P	2 mg/m ³	NOM-010- STPS-2014
		С	2 mg/m ³	ACGIH

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 equipmer	t
51	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 coat.

:	Work uniform or laboratory coa
	:

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	Aqueous solution
Color	:	Clear white to 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	:	No data available



Enrofloxacin Liquid Formulation

Vers 4.0	sion	Revision Date: 06.07.2024		S Number: 23966-00008	Date of last issue: 06.04.2024 Date of first issue: 12.11.2021
	range				
	Flash p	oint	:	Not applicable	
	Evapor	ation rate	:	No data available	9
	Flamma	ability (solid, gas)	:	May form explosi handling or other	ve dust-air mixture during processing, means.
	Flamma	ability (liquids)	:	Not applicable	
		explosion limit / Upper bility limit	:	No data available	•
		explosion limit / Lower bility limit	:	No data available	•
	Vapor p	pressure	:	No data available)
	Relative	e vapor density	:	No data available)
	Relative	e density	:	No data available)
	Density	,	:	No data available)
	Solubili Wat	ty(ies) er solubility	:	No data available)
	Partitio octanol	n coefficient: n-	:	Not applicable	
		nition temperature	:	No data available)
	Decom	position temperature	:	No data available	
	Viscosi Visc	ty cosity, kinematic	:	No data available)
	Explosi	ve properties	:	Not explosive	
	Oxidizir	ng properties	:	The substance of	r mixture is not classified as oxidizing.
	Molecu	lar weight	:	No data available	9
	Particle Particle	e characteristics e size	:	Not applicable	

SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	Not classified as a reactivity hazard.
Chemical stability	:	Stable under normal conditions.
Possibility of hazardous reac- tions	:	May form explosive dust-air mixture during processing, handling or other means.



Version 4.0	Revision Date: 06.07.2024		OS Number: 223966-00008	Date of last issue: 06.04.2024 Date of first issue: 12.11.2021				
			Can react with	strong oxidizing agents.				
Cond	litions to avoid	:	Heat, flames a					
Incon	npatible materials	:	Avoid dust formation. : Oxidizing agents Acids					
Haza produ	rdous decomposition ucts	:		decomposition products are known.				
SECTION	11. TOXICOLOGICAL	. INF	ORMATION					
	mation on likely route	es of	exposure					
Inges	contact							
	e toxicity lassified based on avai	lable	information.					
Prod	uct:							
	e oral toxicity	:	Acute toxicity es Method: Calcula	stimate: > 5,000 mg/kg ation method				
Acute	e dermal toxicity	:	Acute toxicity es Method: Calcula	stimate: > 5,000 mg/kg ation method				
Com	ponents:							
-	floxacin:							
Acute	e oral toxicity	:	LD50 (Rabbit):	500 - 800 mg/kg				
			LD50 (Rat): > 5	000 mg/kg				
			LD50 (Mouse):	> 5,000 mg/kg				
Acute	e dermal toxicity	:	LD50 (Rabbit): :	> 2,000 mg/kg				
Potas	ssium hydroxide:							
Acute	e oral toxicity	:	LD50 (Rat): 333	s mg/kg				
Acute	e inhalation toxicity	:	Assessment: Co	prrosive to the respiratory tract.				
Benz	yl alcohol:							
Acute	e oral toxicity	:	LD50 (Rat): 1,62	20 mg/kg				
Acute	e inhalation toxicity	:	LC50 (Rat): > 4 Exposure time: Test atmospher Method: OECD	4 h				



Enrofloxacin Liquid Formulation

rsion	Revision Date: 06.07.2024		DS Number: 223966-00008	Date of last issue: 06.04.2024 Date of first issue: 12.11.2021
Skin	corrosion/irritation			
Cause	es skin irritation.			
Comp	oonents:			
Enrof	loxacin:			
Resul	t	:	No skin irritation	
Potas	sium hydroxide:			
Speci Resul		:	Rabbit Corrosive after 3	3 minutes or less of exposure
Benz	yl alcohol:			
Speci		:	Rabbit	
Metho Resul		:	OECD Test Guid No skin irritation	
	us eye damage/eye		ion	
	es serious eye irritatio	n.		
<u>Comp</u>	<u>oonents:</u>			
Enrof	loxacin:			
Resul	t	:	Mild eye irritatior	٦
Potas	sium hydroxide:			
Speci		:	Rabbit	
Resul	t	•	Irreversible effec	cts on the eye
Benz	yl alcohol:			
Speci		:	Rabbit	
Resul		:	OECD Test Guid	, reversing within 21 days deline 405
Resp	iratory or skin sensi	tizatio	on	
-	sensitization assified based on ava	ailable	information.	
	iratory sensitization		-	
-	assified based on ava		information.	
Comp	<u>oonents:</u>			
Enrof	loxacin:			
Test T		:	Maximization Te	st
Route Speci	es of exposure	:	Dermal Guinea pig	

: Guinea pig : Not a skin sensitizer.

Species Result



Enrofloxacin Liquid Formulation

Ver 4.0	sion	Revision Date: 06.07.2024		0S Number: 223966-00008	Date of last issue: 06.04.2024 Date of first issue: 12.11.2021		
	Test Ty	of exposure		Intracutaneous te Skin contact Guinea pig negative	st		
	Test Ty	of exposure s		Maximization Test Skin contact Guinea pig OECD Test Guideline 406 negative			
	Germ cell mutagenicity Not classified based on available informa <u>Components:</u>						
	Enrofic						
		exicity in vitro	:	Test Type: Chrom Result: positive	nosomal aberration		
	Genoto	xicity 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: Chrom Species: Rat Result: negative	nosomal aberration		
	Potass	ium hydroxide:					
		xicity in vitro	:	Test Type: Bacter Result: negative	rial reverse mutation assay (AMES)		
	Benzvl	alcohol:					
		oxicity in vitro	:	Test Type: Bacter Result: negative	rial reverse mutation assay (AMES)		
	Genoto	oxicity in vivo	:	cytogenetic assay Species: Mouse	nalian erythrocyte micronucleus test (in vivo /) :: Intraperitoneal injection		

Carcinogenicity

Not classified based on available information.



Vers 4.0	sion	Revision Date: 06.07.2024		S Number: 223966-00008	Date of last issue: 06.04.2024 Date of first issue: 12.11.2021
	Compo	onents:			
	Specie Applica	oxacin: s ation Route ure time	:	Rat Oral 2 Years negative	
		s ation Route ure time	:	Mouse Oral 2 Years negative	
	Specie Applica	ation Route ure time		Mouse Ingestion 103 weeks OECD Test Guide negative	line 451
	-	ductive toxicity cted of damaging fertilit	y.		
	Compo	onents:			
		oxacin: on fertility	:		
	Effects on fetal development :		:	Result: Reduced f	
	Reproc sessme	luctive toxicity - As- ent	:		adverse effects on sexual function and animal experiments.
	-	l alcohol: on fertility	:	Test Type: Fertility Species: Rat Application Route Result: negative	//early embryonic development : Ingestion



Version 4.0	Revision Date: 06.07.2024		223966-00008	Date of last issue: 06.04.2024 Date of first issue: 12.11.2021
			Remarks: Based	on data from similar materials
Effect	ts on fetal development	:	Test Type: Embry Species: Mouse Application Route Result: negative	vo-fetal development :: Ingestion
	-single exposure lassified based on availa	ble	information.	
	-repeated exposure			
		artila	ae. Testis) throua	h prolonged or repeated exposure.
	ponents:			
	floxacin:			
Targe	et Organs ssment	:	cartilage, Testis Causes damage t exposure.	to organs through prolonged or repeated
Repe	ated dose toxicity			
Com	oonents:			
Enro	floxacin:			
Expos	EL EL cation Route sure time et Organs		Rat 36 mg/kg 150 mg/kg Oral 13 Weeks Testis Dog	
NOAE	EL	:	3 mg/kg	
LOAE Applie	L Cation Route	:	9.6 mg/kg Oral	
	sure time	÷	13 Weeks	
Targe	et Organs	:	cartilage	
	EL cation Route sure time	:	Cat 25 mg/kg Oral 30 Days No significant adv	verse effects were reported
Benz	yl alcohol:			
Speci NOAE Applic	es EL cation Route sure time	:	Rat 1.072 mg/l inhalation (dust/m 28 Days OECD Test Guide	



ersion 0	Revision Date: 06.07.2024		9S Number: 223966-00008	Date of last issue: 06.04.2024 Date of first issue: 12.11.2021
Not cla	ation toxicity assified based on availa ience with human exp			
-	onents:	iosu		
	oxacin:	:	Symptoms: Gas tem effects, Ser	trointestinal disturbance, central nervous sys sitivity to light
ECTION 1	2. ECOLOGICAL INFO	ORN	IATION	
Ecoto	xicity			
Compo	onents:			
	oxacin: y to fish	:	LC50 (Lepomis Exposure time:	macrochirus (Bluegill sunfish)): 79.5 mg/l 96 h
			LC50 (Oncorhyr Exposure time:	nchus mykiss (rainbow trout)): > 196 mg/l 96 h
			LC50 (Oryzias la Exposure time:	atipes (Japanese medaka)): > 100 mg/l 96 h
	Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Hyalella Exposure time:	azteca (Amphipod)): > 206 mg/l 96 h
			EC50 (Daphnia Exposure time:	magna (Water flea)): 79.9 mg/l 48 h
Toxicity plants	y to algae/aquatic	:	EC50 (Pseudok mg/l Exposure time:	irchneriella subcapitata (green algae)): 3.1 72 h
			EC50 (Microcys Exposure time:	tis aeruginosa (blue-green algae)): 0.049 mg 5 d
aquatio	y to daphnia and other c invertebrates (Chron-		NOEC (Daphnia Exposure time: 2	i magna (Water flea)): 9.8 mg/l 21 d
	ic toxicity)		NOEC (Daphnia Exposure time: 2	i magna (Water flea)): 5 mg/l 21 d
			LOEC (Daphnia Exposure time: 2	magna (Water flea)): 15 mg/l 21 d
-	I alcohol: y to fish	:	LC50 (Pimephal Exposure time:	es promelas (fathead minnow)): 460 mg/l 96 h
Toxicity	y to daphnia and other	:	EC50 (Daphnia	magna (Water flea)): 230 mg/l
ic toxic Benzy Toxicity	t alcohol: y to fish	:	NOEC (Daphnia Exposure time: 1 LOEC (Daphnia Exposure time: 1 LC50 (Pimephal Exposure time: 1	n magna (Water flea)): 5 mg/l 21 d magna (Water flea)): 15 mg/l 21 d les promelas (fathead minnow)): 96 h



rsion)	Revision Date: 06.07.2024		OS Number: 223966-00008	Date of last issue: 06.04.2024 Date of first issue: 12.11.2021	
aquati	c invertebrates		Exposure time: 4 Method: OECD	18 h Test Guideline 202	
Toxicity to algae/aquatic plants		:	mg/l Exposure time: 7	rchneriella subcapitata (green algae)): 770 72 h Test Guideline 201	
			mg/l Exposure time: 7	tirchneriella subcapitata (green algae)): 310 72 h Test Guideline 201	
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)		:	NOEC (Daphnia magna (Water flea)): 51 mg/l Exposure time: 21 d Method: OECD Test Guideline 211		
Persis	stence and degradabili	ity			
Comp	onents:				
Benzyl alcohol: Biodegradability		:	Result: Readily I Biodegradation: Exposure time: 7	92 - 96 %	
Bioac	cumulative potential				
<u>Comp</u>	oonents:				
Partiti	loxacin: on coefficient: n- ol/water	:	log Pow: 0.5		
Partiti	/I alcohol: on coefficient: n- ol/water	:	: log Pow: 1.05		
Mobil	ity in soil				
Comp	oonents:				
Distrib	loxacin: oution among environ- Il compartments	:	Koc: 5.55		
	adverse effects ta available				

Disposal methods		
Waste from residues	:	Do not dispose of waste into sewer.
		Dispose of in accordance with local regulations.
Contaminated packaging	:	Empty containers should be taken to an approved waste





Version 4.0	Revision Date: 06.07.2024	SDS Number:Date of last issue: 06.04.202410223966-00008Date of first issue: 12.11.2021
		handling site for recycling or disposal. If not otherwise specified: Dispose of as unused product.
SECTION	14. TRANSPORT INFO	ORMATION
Inter	national Regulations	
UNR [.]	TDG	
UN n	umber	: UN 3082
Prope	er shipping name	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Enrofloxacin)
Class	3	: 9
	ing group	: III
Labe		: 9
Envir	onmentally hazardous	: no
ΙΑΤΑ	-DGR	
UN/I	D No.	: UN 3082
-	er shipping name	: Environmentally hazardous substance, liquid, n.o.s. (Enrofloxacin)
Class		: 9
	ing group	: III Missellenseue
Labe	ing instruction (cargo	: Miscellaneous : 964
aircra		. 904
	ing instruction (passen-	: 964
	ircraft)	
•	G-Code	
	umber	: UN 3082
	er shipping name	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
Tiop	or omposing name	N.O.S.
		(Enrofloxacin)
Class	-	: 9
Pack	ing group	: III
Labe		: 9
	Code	: F-A, S-F
Marin	ne pollutant	: yes
Trans	sport in bulk according	g to Annex II of MARPOL 73/78 and the IBC Code
Not a	pplicable for product as	supplied.
Dom	estic regulation	
NOM	-002-SCT	
	umber	: UN 3082
	er shipping name	 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
		(Enrofloxacin)
Class		: 9
	ing group	: 111
Labe	IS	: 9

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





Version	Revision Date:	SDS Number:	Date of last issue: 06.04.2024
4.0	06.07.2024	10223966-00008	Date of first issue: 12.11.2021

Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

SECTION 15. REGULATORY INFORMATION

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

Federal Law for the control of chemical precursors, : Not applicable essential chemical products and machinery for producing capsules, tablets and pills.

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

SECTION 16. OTHER INFORMATION

Revision Date Date format	:	06.07.2024 dd.mm.yyyy
Full text of other abbreviation	ns	
ACGIH NOM-010-STPS-2014		USA. ACGIH Threshold Limit Values (TLV) Mexico. Norm NOM-010-STPS-2014 on Chemicals Polluting the Work Environment - Identification, Assessment and Con- trol - Appendix 1 Occupational Exposure Limits
ACGIH / C NOM-010-STPS-2014 / VLE- P		Ceiling limit Ceiling value

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR -Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Develop-



Enrofloxacin Liquid Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 06.04.2024
4.0	06.07.2024	10223966-00008	Date of first issue: 12.11.2021

ment; 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

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.

The information is considered as correct, but not exhaustive, and will be used only as a guide, which is based in the current knowledge of the substance or mixture, and is applicable to proper safety precautions for the product.

MX / Z8