



Enrofloxacin Liquid Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 04/06/2024
3.0	07/06/2024	10223962-00008	Date of first issue: 11/12/2021

SECTION 1. IDENTIFICATION

Product name	:	Enrofloxacin Liquid Formulation			
Manufacturer or supplier's	deta	ails			
Company name of supplier	:	Merck & Co., Inc			
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@merck.com			
Recommended use of the chemical and restrictions on use					
Recommended use	:	Veterinary product			
Restrictions on use	:	Not applicable			

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR
1910.1200)

Combustible dust

Skin irritation	:	Category 2
Eye irritation	:	Category 2A
Reproductive toxicity	:	Category 2
Specific target organ toxicity - repeated exposure	:	Category 1 (cartilage, Testis)
GHS label elements		
Hazard pictograms	:	
Signal Word	:	Danger
Hazard Statements	:	If small particles are generated during further processing, han- dling or by other means, may form combustible dust concentra- tions in air. 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.
Precautionary Statements	:	Prevention: P201 Obtain special instructions before use.

according to the OSHA Hazard Communication Standard



Enrofloxacin Liquid Formulation

rsion	Revision Date: 07/06/2024	SDS Number: 10223962-00008	Date of last issue: 04/06/2024 Date of first issue: 11/12/2021
		and understood. P260 Do not bre P264 Wash skin P270 Do not eat	eathe mist or vapors. thoroughly after handling. t, drink or smoke when using this product. ective gloves, protective clothing, eye protection
		P305 + P351 + for several minu to do. Continue P308 + P313 IF P332 + P313 If P337 + P313 If 6	ON SKIN: Wash with plenty of soap and wate P338 IF IN EYES: Rinse cautiously with water tes. Remove contact lenses, if present and ea rinsing. exposed or concerned: Get medical attention. skin irritation occurs: Get medical attention. eye irritation persists: Get medical attention. ake off contaminated clothing and wash it befor
		Storage: P405 Store lock	ed up.
		Disposal:	
		•	f contents and container to an approved waste
Othe	r hazards		
Nono	known.		

SECTION 3.	COMPOSITIO	ON/INFORMA	TION ON IN	IGREDIEN

Substance / Mixture : Mixture						
Components						
Chemical name	CAS-No.	Concentration (% w/w)				
Propylene glycol	57-55-6	>= 20 - < 30				
Enrofloxacin	93106-60-6	>= 5 - < 10				
Potassium hydroxide	1310-58-3	>= 1 - < 2				
Benzyl alcohol	100-51-6	>= 0.1 - < 1				

Actual concentration is withheld as a trade secret

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.



according to the OSHA Hazard Communication Standard

Enrofloxacin Liquid Formulation

Version 3.0	Revision Date: 07/06/2024	SDS Number: 10223962-00008	Date of last issue: 04/06/2024 Date of first issue: 11/12/2021		
In case of eye contact		 Wash clothing before reuse. Thoroughly clean shoes before reuse. 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, I Get medical a	If swallowed, DO NOT induce vomiting. Get medical attention.		
Most important symptoms and effects, both acute and delayed		: Causes skin ir Causes seriou Suspected of	horoughly with water. ritation. s eye irritation. damaging fertility. ge to organs through prolonged or repeated		
	ction of first-aiders to physician	: First Aid respo and use the re when the pote	nders should pay attention to self-protection, commended personal protective equipment ntial for exposure exists (see section 8). natically 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.

according to the OSHA Hazard Communication Standard



Enrofloxacin Liquid Formulation

Version 3.0	Revision Date: 07/06/2024	SDS Number: 10223962-00008	Date of last issue: 04/06/2024 Date of first issue: 11/12/2021
3.0 Method		 Soak up with inert Avoid dispersal of with compressed Dust deposits sho surfaces, as these released into the a For large spills, pr containment to ke can be pumped, s container. Clean up remainin absorbent. Local or national r disposal of this ma employed in the c determine which r 	Date of first issue: 11/12/2021 absorbent material. dust in the air (i.e., clearing dust surfaces
		certain local or na	tional requirements.

SECTION 7. HANDLING AND STORAGE

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	Use only with adequate ventilation.
	Do not get on skin or clothing.
Advice on sale handling	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.
Conditions for safe storage	Keep in properly labeled containers.
	Store locked up.
	Store in accordance with the particular national regulations.
Materials to avoid	Do not store with the following product types:
	Strong oxidizing agents
	Self-reactive substances and mixtures
	Organic peroxides
	Explosives
	Gases



according to the OSHA Hazard Communication Standard

Enrofloxacin Liquid Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 04/06/2024
3.0	07/06/2024	10223962-00008	Date of first issue: 11/12/2021

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
Propylene glycol	57-55-6	TWA	10 mg/m ³	US WEEL
Enrofloxacin	93106-60-6	TWA	0.2 mg/m3 (OEB 2)	Internal
Potassium hydroxide	1310-58-3	С	2 mg/m ³	ACGIH
		С	2 mg/m ³	NIOSH REL
Benzyl alcohol	100-51-6	TWA	10 ppm	US WEEL

Engineering measures Use appropriate engineering controls and manufacturing technologies to control airborne concentrations (e.g., dripless 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 Respiratory protection General and local exhaust ventilation is recommended to maintain vapor exposures below recommended limits. Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators. Protection provided by air purifying respirators against exposure to any hazardous chemical is limited. Use a positive pressure air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstance where air purifying respirators may not provide adequate protection. 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. Work uniform or laboratory coat. Skin and body protection Hygiene 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,





/ersion 3.0	Revision Date: 07/06/2024		S Number: 223962-00008	Date of last issue: 04/06/2024 Date of first issue: 11/12/2021
			industrial hygiene use of administra	e monitoring, medical surveillance and the tive controls.
SECTION 9	. PHYSICAL AND CHI	ЕМІС	CAL PROPERTIE	S
Appear	ance	:	Aqueous solution	n
Color		:	Clear white to ye	ellow.
Odor		:	No data availabl	e
Odor T	hreshold	:	No data availabl	e
рН		:	10.5 - 12.5	
Melting	point/freezing point	:	No data availabl	e
Initial b range	oiling point and boiling	:	No data availabl	e
Flash p	oint	:	Not applicable	
Evapor	ation rate	:	No data availabl	e
Flamma	ability (solid, gas)	: May form explosive dust-air mixture during processing handling or other means.		
Flamma	ability (liquids)	:	Not applicable	
	explosion limit / Upper bility limit	:	No data availabl	e
	explosion limit / Lower bility limit	:	No data availabl	e
Vapor p	pressure	:	No data availabl	e
Relative	e vapor density	:	No data availabl	е
Relative	e density	:	No data availabl	е
Density	,	:	No data availabl	е
Solubili Wat	ty(ies) er solubility	:	No data availabl	e
Partitio octanol	n coefficient: n- /water	:	Not applicable	
	nition temperature	:	No data availabl	e
Decom	position temperature	:	No data availabl	e
Viscosi Visc	ty cosity, kinematic	:	No data availabl	e



according to the OSHA Hazard Communication Standard

Enrofloxacin Liquid Formulation

Version 3.0	Revision Date: 07/06/2024	SDS Number: 10223962-00008	Date of last issue: 04/06/2024 Date of first issue: 11/12/2021	
Explo	sive properties	: Not explosive		
Oxidizing properties		: The substance	e or mixture is not classified as oxidizing.	
Moleo	cular weight	: No data avail	able	
	cle characteristics cle size	: Not applicable	e	

SECTION 10. STABILITY AND REACTIVITY

Reactivity Chemical stability Possibility of hazardous reac- tions		Not classified as a reactivity hazard. Stable under normal conditions. May form explosive dust-air mixture during processing, handling or other means. Can react with strong oxidizing agents.
Conditions to avoid	:	Heat, flames and sparks. Avoid dust formation.
Incompatible materials	:	Oxidizing agents Acids
Hazardous decomposition products	:	No hazardous decomposition products are known.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Inhalation Skin contact Ingestion Eye contact

Acute toxicity

Not classified based on available information.

Product:

Acute oral toxicity	:	Acute toxicity estimate: > 5,000 mg/kg Method: Calculation method
Acute dermal toxicity	:	Acute toxicity estimate: > 5,000 mg/kg Method: Calculation method
Components:		
Propylene glycol:		

Acute oral toxicity	:	LD50 (Rat): 22,000 mg/kg
Acute inhalation toxicity	:	LC50 (Rat): > 44.9 mg/l Exposure time: 4 h



according to the OSHA Hazard Communication Standard

Version 3.0	Revision Date: 07/06/2024	SDS Number:Date of last issue: 04/06/202410223962-00008Date of first issue: 11/12/2021	
		Test atmosphere: dust/mist	
Acute	dermal toxicity	: LD50 (Rabbit): > 2,000 mg/kg Assessment: The substance or mixture has no ac toxicity	ute dermal
-	loxacin:		
Acute	oral toxicity	: LD50 (Rabbit): 500 - 800 mg/kg	
		LD50 (Rat): > 5,000 mg/kg	
		LD50 (Mouse): > 5,000 mg/kg	
Acute	dermal toxicity	: LD50 (Rabbit): > 2,000 mg/kg	
Potas	sium hydroxide:		
Acute	oral toxicity	: LD50 (Rat): 333 mg/kg	
Acute	inhalation toxicity	: Assessment: Corrosive to the respiratory tract.	
Benzy	yl alcohol:		
Acute	oral toxicity	: LD50 (Rat): 1,620 mg/kg	
Acute	inhalation toxicity	 LC50 (Rat): > 4.178 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403 	
	corrosion/irritation es skin irritation.		
Comp	oonents:		
Propy	/lene glycol:		
Specie Metho		: Rabbit : OECD Test Guideline 404	
Result		: No skin irritation	
Enrof	loxacin:		
Result	t	: No skin irritation	
Potas	sium hydroxide:		
Specie Result		: Rabbit : Corrosive after 3 minutes or less of exposure	
Benzy	yl alcohol:		
Specie		: Rabbit : OECD Test Guideline 404	
Metho			





Version 3.0	Revision Date: 07/06/2024		9S Number: 223962-00008	Date of last issue: 04/06/2024 Date of first issue: 11/12/2021
	ous eye damage/eye		on	
	ses serious eye irritatio	on.		
	ponents:			
-	ylene glycol:		Dates	
Spec Resu		:	Rabbit No eye irritation	
Meth		:	OECD Test Guid	
Enro	floxacin:			
Resu	ılt	:	Mild eye irritation	n
Pota	ssium hydroxide:			
Spec		:	Rabbit	
Resu	llt	:	Irreversible effect	cts on the eye
	yl alcohol:			
Spec Resu		:	Rabbit	, reversing within 21 days
Meth		:	OECD Test Guid	
Not o Resp	sensitization classified based on ava biratory sensitization classified based on ava	Ì		
<u>Com</u>	ponents:			
Prop	ylene glycol:			
	Туре	:	Maximization Te	est
Spec	es of exposure ies		Skin contact Guinea pig	
Resu		:	negative	
Enro	floxacin:			
	Туре	:	Maximization Te	est
Rout Spec	es of exposure	:	Dermal Guinea pig	
Resu		:	Not a skin sensi	tizer.
Pota	ssium hydroxide:			
	Туре	:	Intracutaneous t	est
Rout Spec	es of exposure	:	Skin contact Guinea pig	
Resu		:	negative	
			U -	





sion	Revision Date: 07/06/2024	SDS Number: 10223962-00008	Date of last issue: 04/06/2024 Date of first issue: 11/12/2021					
Down								
	yl alcohol:	: Maximization Te						
Test Route	es of exposure	: Skin contact	51					
Speci		: Guinea pig						
Metho			OECD Test Guideline 406					
Resu	lt	: negative	negative					
Germ	n cell mutagenicity							
Not c	lassified based on av	ailable information.						
<u>Com</u>	ponents:							
	ylene glycol:							
Geno	toxicity in vitro	Result: negative	rial reverse mutation assay (AMES)					
			nosome aberration test in vitro est Guideline 473					
Geno	toxicity in vivo	cytogenetic assa	nalian erythrocyte micronucleus test (in viv y)					
			Species: Mouse Application Route: Intraperitoneal injection Result: negative					
Enro	floxacin:							
	itoxicity in vitro	: Test Type: Chror	nosomal aberration					
Geno		Result: positive						
Geno	toxicity in vivo	: Test Type: Micro	nucleus test					
		Species: Mouse						
		Result: negative						
			malian bone marrow sister chromatid ex-					
		change	-					
		Species: Hamste Result: negative	1					
		-	nosomal aberration					
		Species: Rat						
		Result: negative						
Potas	ssium hydroxide:							
	toxicity in vitro	: Test Type: Bacte Result: negative	rial reverse mutation assay (AMES)					
Benz	yl alcohol:							
Geno	toxicity in vitro	: Test Type: Bacte Result: negative	rial reverse mutation assay (AMES)					

according to the OSHA Hazard Communication Standard



sion	Revision Date: 07/06/2024	SDS Number: 10223962-0000	Date of last issue: 04/06/2024 Date of first issue: 11/12/2021		
Genotoxicity in vivo :		cytogenetic Species: Mo	ouse Route: Intraperitoneal injection		
	nogenicity assified based on avai	lable information.			
Comp	onents:				
Propy	lene glycol:				
Specie Applic	es ation Route ure time	: Rat : Ingestion : 2 Years : negative			
Enrof	loxacin:				
	ation Route ure time	: Rat : Oral : 2 Years : negative			
	ation Route ure time	: Mouse : Oral : 2 Years : negative			
Benzy	/l alcohol:				
Specie Applic	es ation Route ure time d	: Mouse : Ingestion : 103 weeks : OECD Test : negative	Guideline 451		
IARC			resent at levels greater than or equal to 0.1% is e or confirmed human carcinogen by IARC.		
OSHA		No component of this product present at levels greater than or equal to 0.1% on OSHA's list of regulated carcinogens.			
NTP		No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.			
-	oductive toxicity acted of damaging ferti	lity.			
Comp	onents:				
Propy	lene glycol:				
	s on fertility	: Test Type:	Two-generation reproduction toxicity study		



according to the OSHA Hazard Communication Standard

Enrofloxacin Liquid Formulation

Vers 3.0	sion	Revision Date: 07/06/2024		9S Number: 223962-00008	Date of last issue: 04/06/2024 Date of first issue: 11/12/2021
				Species: Mouse Application Route Result: negative	: Ingestion
	Effects on fetal development		:	Test Type: Embry Species: Mouse Application Route Result: negative	o-fetal development : Ingestion
	Enrofic	oxacin:			
	Effects on fertility		:		-
	Effects on fetal development		:	Result: Reduced f	
	Reproc sessme	luctive toxicity - As- ent	:		f adverse effects on sexual function and animal experiments.
	Benzyl	alcohol:			
	Effects on fertility		:	Species: Rat Application Route Result: negative	y/early embryonic development : Ingestion on data from similar materials
	Effects on fetal development		:	Test Type: Embry Species: Mouse Application Route Result: negative	o-fetal development : Ingestion

STOT-single exposure

Not classified based on available information.

STOT-repeated exposure

Causes damage to organs (cartilage, Testis) through prolonged or repeated exposure.

according to the OSHA Hazard Communication Standard



Enrofloxacin Liquid Formulation

Ver 3.0	sion	Revision Date: 07/06/2024		DS Number: 223962-00008	Date of last issue: 04/06/2024 Date of first issue: 11/12/2021
	Enrofl	onents: oxacin: Organs sment	:	cartilage, Testis Causes damage t exposure.	o organs through prolonged or repeated
	Repea	ted dose toxicity			
	<u>Comp</u>	onents:			
	Specie NOAE Applica			Rat, male >= 1,700 mg/kg Ingestion 2 y	
	Specie NOAE LOAEI Applica Expos	L		Rat 36 mg/kg 150 mg/kg Oral 13 Weeks Testis	
	Expos	L		Dog 3 mg/kg 9.6 mg/kg Oral 13 Weeks cartilage	
		L ation Route ure time		Cat 25 mg/kg Oral 30 Days No significant adv	erse effects were reported
	Specie NOAE Applica	L ation Route ure time		Rat 1.072 mg/l inhalation (dust/m 28 Days OECD Test Guide	

Aspiration toxicity

Not classified based on available information.

according to the OSHA Hazard Communication Standard



rsion)	Revision Date: 07/06/2024		9S Number: 223962-00008	Date of last issue: 04/06/2024 Date of first issue: 11/12/2021
Expe	rience with human exp	osu	ire	
Com	oonents:			
Enrof	loxacin:			
Inges	tion	:	Symptoms: Gastr tem effects, Sens	ointestinal disturbance, central nervous sys itivity to light
CTION	12. ECOLOGICAL INFO	ORN	IATION	
Ecoto	oxicity			
Com	oonents:			
Propy	/lene glycol:			
Toxic	ity to fish	:	LC50 (Oncorhyno Exposure time: 9	hus mykiss (rainbow trout)): 40,613 mg/l ን h
	ity to daphnia and other ic invertebrates	:	EC50 (Ceriodaph Exposure time: 4	nia dubia (water flea)): 18,340 mg/l 3 h
Toxic plants	ity to algae/aquatic	:	ErC50 (Skeletone Exposure time: 7: Method: OECD T	
	ity to daphnia and other ic invertebrates (Chron-	:	NOEC (Ceriodap Exposure time: 7	nnia dubia (water flea)): 13,020 mg/l d
	ity to microorganisms	:	NOEC (Pseudom Exposure time: 18	onas putida): > 20,000 mg/l 3 h
Enro	loxacin:			
Toxic	ity to fish	:	LC50 (Lepomis m Exposure time: 9	acrochirus (Bluegill sunfish)): 79.5 mg/l 5 h
			LC50 (Oncorhynd Exposure time: 9	hus mykiss (rainbow trout)): > 196 mg/l ን h
			LC50 (Oryzias lat Exposure time: 9	ipes (Japanese medaka)): > 100 mg/l 5 h
	ity to daphnia and other ic invertebrates	:	EC50 (Hyalella a: Exposure time: 9	zteca (Amphipod)): > 206 mg/l S h
			EC50 (Daphnia n Exposure time: 4	nagna (Water flea)): 79.9 mg/l 3 h
Toxic plants	ity to algae/aquatic	:	EC50 (Pseudokir mg/l Exposure time: 7	chneriella subcapitata (green algae)): 3.1 2 h
			EC50 (Microcysti Exposure time: 5	s aeruginosa (blue-green algae)): 0.049 mg



according to the OSHA Hazard Communication Standard

Versi 3.0	ion	Revision Date: 07/06/2024		9S Number: 223962-00008	Date of last issue: 04/06/2024 Date of first issue: 11/12/2021
i		to daphnia and other invertebrates (Chron- ty)	:	Exposure time: 21 NOEC (Daphnia n Exposure time: 21	nagna (Water flea)): 5 mg/l d nagna (Water flea)): 15 mg/l
	Benzyl	alcohol:			
	Toxicity	r to fish	:	LC50 (Pimephales Exposure time: 96	s promelas (fathead minnow)): 460 mg/l i h
		to daphnia and other invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: OECD Te	agna (Water flea)): 230 mg/l h est Guideline 202
	Toxicity plants	to algae/aquatic	:	EC50 (Pseudokiro mg/l Exposure time: 72 Method: OECD Te	
				NOEC (Pseudokir mg/l Exposure time: 72 Method: OECD Te	
i		to daphnia and other invertebrates (Chron- ty)	:	NOEC (Daphnia n Exposure time: 21 Method: OECD Te	
	Persist	ence and degradabili	ty		
	Compo	onents:			
		ene glycol: radability	:	Result: Readily bio Biodegradation: 9 Exposure time: 28 Method: OECD Te	08.3 %
	•	alcohol: radability	:	Result: Readily bio Biodegradation: 9 Exposure time: 14	92 - 96 %
	Bioacc	umulative potential			
	Compo	onents:			
	Propyle	ene glycol:			

aircraft)



according to the OSHA Hazard Communication Standard

Version 3.0	Revision Date: 07/06/2024		DS Number: 0223962-00008	Date of last issue: 04/06/2024 Date of first issue: 11/12/2021			
	Partition coefficient: n- octanol/water		log Pow: -1.07 Method: Regula	tion (EC) No. 440/2008, Annex, A.8			
Partit	floxacin: ion coefficient: n- iol/water	:	log Pow: 0.5				
Partit	Benzyl alcohol: Partition coefficient: n- octanol/water		log Pow: 1.05				
Mobi	lity in soil						
<u>Com</u>	ponents:						
Distri	floxacin: bution among environ- al compartments	:	Koc: 5.55				
	r adverse effects ata available						
ECTION	13. DISPOSAL CONSI	DEF	RATIONS				
-	osal methods						
wast	e from residues			ccordance with local regulations. of waste into sewer.			
Conta	Contaminated packaging		 Empty containers should be taken to an approved waste handling site for recycling or disposal. If not otherwise specified: Dispose of as unused product. 				
ECTION	14. TRANSPORT INFO	DRN					
Inter	national Regulations						
UNR							
	umber er shipping name	:	UN 3082 ENVIRONMEN N.O.S. (Enrofloxacin)	TALLY HAZARDOUS SUBSTANCE, LIQUID			
Class		:	9				
Pack Labe	ing group	:	 9				
	onmentally hazardous	:	no				
	-DGR						
UN/II Prope	D No. er shipping name	:	UN 3082 Environmentally (Enrofloxacin)	/ hazardous substance, liquid, n.o.s.			
Class		:	9				
Pack Labe	ing group Is	:	III Miscellaneous				
	ing instruction (cargo	:	964				



according to the OSHA Hazard Communication Standard

Enrofloxacin Liquid Formulation

Version 3.0	Revision Date: 07/06/2024		DS Number: 223962-00008	Date of last issue: 04/06/2024 Date of first issue: 11/12/2021
Packir ger aii	ng instruction (passen- craft)	:	964	
UN nu	IMDG-Code UN number Proper shipping name		UN 3082 ENVIRONMENT/ N.O.S. (Enrofloxacin)	ALLY HAZARDOUS SUBSTANCE, LIQUID,
Labels EmS (:	9 III 9 F-A, S-F yes	
	Transport in bulk according Not applicable for product as			OL 73/78 and the IBC Code
Dome	stic regulation			
Prope Class Packir Labels ERG (/NA number r shipping name ng group S Code e pollutant		(Enrofloxacin) 9 III CLASS 9 171 yes(Enrofloxacin) Above applies on liters. Shipment by grou may be shipped p	hazardous substance, liquid, n.o.s. ly to containers over 119 gallons or 450 and under DOT is non-regulated; however it ber the applicable hazard classification to odal transport involving ICAO (IATA) or IMO.

Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

SECTION 15. REGULATORY INFORMATION

CERCLA Reportable Quantity

Components	CAS-No.	Component RQ	Calculated product RQ
		(lbs)	(lbs)
Potassium hydroxide	1310-58-3	1000	95238

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards

Combustible dust Reproductive toxicity



according to the OSHA Hazard Communication Standard

Enrofloxacin Liquid Formulation

Version 3.0	Revision Date: 07/06/2024	SDS Number: 10223962-00008	Date of last issue: 04/06/2024 Date of first issue: 11/12/2021
		Skin corrosio	et organ toxicity (single or repeated exposure) n or irritation damage or eye irritation
SAR	A 313	known CAS r	does not contain any chemical components with numbers that exceed the threshold (De Minimis) els established by SARA Title III, Section 313.
US S	tate Regulations		
Penn	sylvania Right To Kr Water Propylene glycol Enrofloxacin Potassium hydro		7732-18-5 57-55-6 93106-60-6 1310-58-3
Califo	ornia List of Hazardo Potassium hydro		1310-58-3
Califo	ornia Permissible Ex Potassium hydro	-	hemical Contaminants 1310-58-3
The i	ngredients of this pr	oduct are reported	in the following inventories:
AICS		: not determine	ed
DSL		: not determine	ed
IECS	С	: not determine	ed

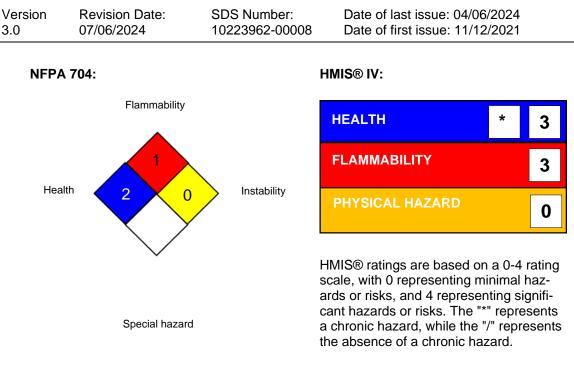
SECTION 16. OTHER INFORMATION

Further information



according to the OSHA Hazard Communication Standard

Enrofloxacin Liquid Formulation



Full text of other abbreviations

ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)
NIOSH REL	:	USA. NIOSH Recommended Exposure Limits
US WEEL	:	USA. Workplace Environmental Exposure Levels (WEEL)
ACGIH / C	:	Ceiling limit
NIOSH REL / C	:	Ceiling value not be exceeded at any time.
US WEEL / TWA	:	8-hr TWA

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada): ECx - Concentration associated with x% response: EHS - Extremely Hazardous Substance; 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; HMIS - Hazardous Materials Identification System; 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; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; 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; RCRA - Resource Conservation and Recovery Act;



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Enrofloxacin Liquid Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 04/06/2024
3.0	07/06/2024	10223962-00008	Date of first issue: 11/12/2021

REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; 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

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

Revision Date : 07/06/2024

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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