



Enrofloxacin (10%) Formulation

	Version Revisio 7.0 09/28/2	on Date: SDS Nun 2024 633938-0		sue: 09/30/2023 sue: 04/27/2016
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SECTION 1. IDENTIFICATION

Product name	:	Enrofloxacin (10%) Formulation
Other means of identification	:	No data available

Manufacturer or supplier's details

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

	lan	ce with the Hazardous Products Regulations
Skin sensitization	:	Sub-category 1B
Reproductive toxicity	:	Category 2
Specific target organ toxicity - repeated exposure	:	Category 1 (cartilage, Testis)
GHS label elements Hazard pictograms	:	
Signal Word	:	Danger
Hazard Statements	:	H317 May cause an allergic skin reaction. 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. 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. P272 Contaminated work clothing should not be allowed out of the workplace.

according to the Hazardous Products Regulations



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		P280 Wear pro and face prote	otective gloves, protective clothing, eye protectior ction.
		P308 + P313 I P333 + P313 I tion.	F ON SKIN: Wash with plenty of water. F exposed or concerned: Get medical attention. f skin irritation or rash occurs: Get medical atten- Fake off contaminated clothing and wash it before
		Storage: P405 Store loc	ked up.
		Disposal:	
		P501 Dispose disposal plant.	of contents and container to an approved waste
Other	hazards		
None	known.		

Substance / Mixture : Mixture

Components

•••••			
Chemical name	Common Name/Synonym	CAS-No.	Concentration (% w/w)
Enrofloxacin	No data availa- ble	93106-60-6	>= 10 - < 30 *
Benzyl alcohol	Benzenemetha- nol	100-51-6	>= 1 - < 5 *

* Actual concentration or concentration range 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 soap and plenty of water. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.
In case of eye contact	: Flush eyes with water as a precaution. Get medical attention if irritation develops and persists.
If swallowed	: If swallowed, DO NOT induce vomiting. Get medical attention. Rinse mouth thoroughly with water.



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Most important symptoms and effects, both acute and delayed Protection of first-aiders Notes to physician		:	May cause an allergic skin reaction. Suspected of damaging fertility. Causes damage to organs through prolonged or repeated exposure. 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). Treat symptomatically and supportively.		
SEC	CTION 5	. FIRE-FIGHTING ME	ASL	JRES	
	Suitable	e extinguishing media	:	Water spray Alcohol-resistant Carbon dioxide (C Dry chemical	
	Unsuita media	able extinguishing	:	None known.	
	Specific fighting	c hazards during fire	:	Exposure to com	pustion products may be a hazard to health.
	Hazard ucts	ous combustion prod-	:	Carbon oxides	
	Specific ods	c extinguishing meth-	:	cumstances and t Use water spray t	measures that are appropriate to local cir- the surrounding environment. to cool unopened containers. ged containers from fire area if it is safe to do
		l protective equipment fighters	:		e, wear self-contained breathing apparatus. tective 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. For large spills, provide diking or other appropriate containment to keep material from spreading. If diked material

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		container. Clean up remain absorbent. Local or nationa disposal of this employed in the determine which Sections 13 and	, store recovered material in appropriate ning materials from spill with suitable al regulations may apply to releases and material, as well as those materials and items e cleanup of releases. You will need to h regulations are applicable. d 15 of this SDS provide information regarding national requirements.

SECTION 7. HANDLING AND STORAGE

Technical measures	:	See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.
Local/Total ventilation	:	Use only with adequate ventilation.
Advice on safe handling	:	Do not get on skin or clothing.
Ũ		Do not breathe mist or vapors.
		Do not swallow.
		Avoid contact with 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
		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

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

Engineering measures : Use appropriate engineering controls and mar technologies to control airborne concentration less quick connections). All engineering controls should be implemented design and operated in accordance with GMP

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			ucts, workers, and the environment. operations do not require special containment.
Perso	onal protective equip	ment	
	iratory protection	exposure as recommende	ocal exhaust ventilation is not available or sessment demonstrates exposures outside the ed guidelines, use respiratory protection.
	ter type protection	. Combined p	articulates and organic vapor type
	aterial	: Chemical-re	sistant gloves
Eye p	protection	If the work e mists or aero Wear a face	glasses with side shields or goggles. nvironment or activity involves dusty conditions, osols, wear the appropriate goggles. shield or other full face protection if there is a direct contact to the face with dusts, mists, or
	and body protection me measures	: If exposure t eye flushing working plac When using Contaminate workplace. Wash contat The effective engineering appropriate industrial hys	n or laboratory coat. to chemical is likely during typical use, provide systems and safety showers close to the ce. do not eat, drink or smoke. ed work clothing should not be allowed out of the minated clothing before re-use. e operation of a facility should include review of controls, proper personal protective equipment, degowning and decontamination procedures, giene monitoring, medical surveillance and the histrative controls.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	liquid
Color	:	No data available
Odor	:	No data available
Odor Threshold	:	No data available
рН	:	No data available
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)	:	Not applicable

according to the Hazardous Products Regulations



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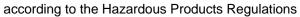
Vers 7.0	sion	Revision Date: 09/28/2024		S Number: 938-00022	Date of last issue: 09/30/2023 Date of first issue: 04/27/2016
	Flamma	ability (liquids)	:	No data available	
		explosion limit / Upper bility limit	:	No data available	
		explosion limit / Lower bility limit	:	No data available	
	Vapor p	pressure	:	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	
	Partition octanol	n coefficient: n-	:	Not applicable	
		ition temperature	:	No data available	
	Decom	position temperature	:	No data available	
	Viscosi Visc	ty osity, kinematic	:	No data available	
	Explosi	ve properties	:	Not explosive	
	Oxidizir	ng properties	:	The substance or	mixture is not classified as oxidizing.
	Particle Particle	characteristics size	:	Not applicable	

SECTION 10. STABILITY AND REACTIVITY

Reactivity Chemical stability Possibility of hazardous reac- tions	:	Not classified as a reactivity hazard. Stable under normal conditions. Can react with strong oxidizing agents.
Conditions to avoid Incompatible materials Hazardous decomposition products		None known. Oxidizing agents No hazardous decomposition products are known.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure Inhalation Skin contact



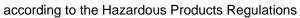


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Inges Eye c	tion contact			
	e toxicity lassified based on ava	ailahla ir	oformation	
Prod			normation.	
	e oral toxicity		Acute toxicity e Method: Calcu	estimate: > 2,000 mg/kg lation method
Acute	e dermal toxicity		Acute toxicity e Method: Calcu	estimate: > 2,000 mg/kg lation method
Com	ponents:			
Enro	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
Benz	yl alcohol:			
	e oral toxicity	:	LD50 (Rat): 1,2	200 mg/kg
Acute	e inhalation toxicity			: 4 h
II Skin	corrosion/irritation			
Not c	lassified based on ava	ailable ir	nformation.	
Com	ponents:			
	floxacin:			
Resu	lt	:	No skin irritatio	n
Benz	yl alcohol:			
Spec			Rabbit	idalina 101
Metho Resu			OECD Test Gu No skin irritatic	

Serious eye damage/eye irritation

Not classified based on available information.



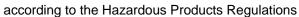


Components: Errofloxacin: Result Mild eye irritation Species Rabbit Result CCCD Test Guideline 405 Result CCCD Test Guideline 405 Respiratory or skin sensitization Skin sensitization Mathed CCCD Test Guideline 405 Respiratory sensitization Not classified based on available information. Components: Not classified based on available information. Components: Enrofloxacin: Test Type :: Routes of exposure : Species :: Guinea pig Result : Not a skin sensitizer. Benzyl alcohol: Test Type :: Result : Result : Mutes of exposure : Skin contact : Species : Massessment : Assessment : Mot classified based on available information. Components: Benotoxicity in vitro : Species: : </th <th>Version 7.0</th> <th>Revision Date: 09/28/2024</th> <th>SDS Number: 633938-00022</th> <th>Date of last issue: 09/30/2023 Date of first issue: 04/27/2016</th>	Version 7.0	Revision Date: 09/28/2024	SDS Number: 633938-00022	Date of last issue: 09/30/2023 Date of first issue: 04/27/2016
Result : Mild eye irritation Benzyl alcohol: Species : Rabbit Result : Irritation to eyes, reversing within 21 days Method : OECD Test Guideline 405 Respiratory or skin sensitization Skin sensitization Skin sensitization May cause an allergic skin reaction. Respiratory sensitization Not classified based on available information. Components: Enrofloxacin: Test Type : Austinization Test Routes of exposure : Dypecies : Species : Species : Test Type : Human repeat insult patch test (HRIPT) Routes of exposure : Species : Probability or evidence of low to moderate skin sensitization rate in humans Gern cell mutagenicity Not classified based on available information. Components: Enrofloxacin: Genotoxicity in vitro :	<u>Com</u>	<u>oonents:</u>		
Species : Rabbit Result : Irritation to eyes, reversing within 21 days Method : OECD Test Guideline 405 Respiratory or skin sensitization Skin sensitization May cause an allergic skin reaction. Respiratory sensitization May cause an allergic skin reaction. Respiratory sensitization INot classified based on available information. Components: Enrofloxacin: Test Type : Maximization Test Routes of exposure : Dermal Species : Guinea pig Result : Not a skin sensitizer. Benzyl alcohol: : Test Type : Human repeat insult patch test (HRIPT) Routes of exposure : Skin contact Species : Humans Result : positive Assessment : positive Assessment : Probability or evidence of low to moderate skin sensitization rate in humans Gern cell mutagenicity information. Components: : Enrofloxacin: : Genotoxicity in vitro : Test Type: Chromosomal a			: Mild eye irritat	ion
Species : Rabbit Result : Irritation to eyes, reversing within 21 days Method : OECD Test Guideline 405 Respiratory or skin sensitization Skin sensitization May cause an allergic skin reaction. Respiratory sensitization May cause an allergic skin reaction. Respiratory sensitization INot classified based on available information. Components: Enrofloxacin: Test Type : Maximization Test Routes of exposure : Dermal Species : Guinea pig Result : Not a skin sensitizer. Benzyl alcohol: : Test Type : Human repeat insult patch test (HRIPT) Routes of exposure : Skin contact Species : Humans Result : positive Assessment : positive Assessment : Probability or evidence of low to moderate skin sensitization rate in humans Gern cell mutagenicity information. Components: : Enrofloxacin: : Genotoxicity in vitro : Test Type: Chromosomal a	Benz	yl alcohol:		
Skin sensitization May cause an allergic skin reaction. Respiratory sensitization Not classified based on available information. Components: Enrofloxacin: Test Type Maximization Test Routes of exposure Species E. Guinea pig Result Routes of exposure Skin contact Species Skin contact Species Humans Result Routes of exposure Skin contact Species Humans Result Routes of exposure Skin contact Species Humans Result positive Assessment Probability or evidence of low to moderate skin sensitization rate in humans Germ cell mutagenicity Not classified based on available information. Components: Enrofloxacin: Genotoxicity in vitro Test Type: Chromosomal aberration Result: positive Genotoxicity in vitro Test Type: Mammalian bone marrow sister chromatid ex- change Species: Hamster Result: negative Test Type: Marmalian bone marrow sister chromatid ex- change Species: Hamster Result: negative	Speci Resu	les	: Irritation to eye	
May cause an allergic skin reaction. Respiratory sensitization Not classified based on available information. Components: Enrofloxacin: Test Type : Maximization Test Routes of exposure : Dermal Species : Guinea pig Result : Not a skin sensitizer. Benzyl alcohol: : Test Type : Human repeat insult patch test (HRIPT) Routes of exposure : Skin contact Species : Humans Result : positive Assessment : Probability or evidence of low to moderate skin sensitization rate in humans Germ cell mutagenicity Not classified based on available information. Components: : Enrofloxacin: : Genotoxicity in vitro : Test Type: Chromosomal aberration Result: positive Genotoxicity in vitro : Test Type: Micronucleus test Species: Mouse Result: negative Test Type: Mammalian bone marrow sister chromatid exchange Species: Hamster Result: negative	Resp	iratory or skin sens	tization	
Respiratory sensitization Not classified based on available information. Components: Enrofloxacin: Test Type : Maximization Test Routes of exposure : Dermal Species :: Guinea pig Result : Not a skin sensitizer. Benzyl alcohol: : Test Type : Human repeat insult patch test (HRIPT) Routes of exposure : Skin contact Species : Humans Result : positive Assessment : Probability or evidence of low to moderate skin sensitization rate in humans Germ cell mutagenicity Not classified based on available information. Components: : Enrofloxacin: : Genotoxicity in vitro : Test Type: Chromosomal aberration Result: positive Genotoxicity in vitro : Test Type: Micronucleus test Species: Mouse Result: negative Test Type: Mammalian bone marrow sister chromatid exchange Species: Hamster Result: negative				
Not classified based on available information. Components: Enrofloxacin: Test Type : Maximization Test Routes of exposure : Dermal Species : Guinea pig Result : Not a skin sensitizer. Benzyl alcohol:				
Semponents: Enrofloxacin: Test Type : Dermal Species : Guinea pig Result : Not a skin sensitizer. Benzyl alcohol:	-	•		
Enrofloxacin: Test Type : Maximization Test Routes of exposure : Dermal Species : Guinea pig Result : Not a skin sensitizer. Benzyl alcohol: : Test Type Test Type : Human repeat insult patch test (HRIPT) Routes of exposure : Skin contact Species : Humans Result : positive Assessment : probability or evidence of low to moderate skin sensitization rate in humans Germ cell mutagenicity Not classified based on available information. Components: Enrofloxacin: Genotoxicity in vitro : Test Type: Chromosomal aberration Result: positive Genotoxicity in vivo : Test Type: Micronucleus test Species: Mouse Result: negative Test Type: Mammalian bone marrow sister chromatid exchange Species: Hamster Result: negative				
Test Type : Maximization Test Routes of exposure : Dermal Species : Guinea pig Result : Not a skin sensitizer. Benzyl alcohol: Test Type : Human repeat insult patch test (HRIPT) Routes of exposure : Skin contact Species : Humans Result : positive Assessment : Probability or evidence of low to moderate skin sensitization rate in humans Germ cell mutagenicity Not classified based on available information. Components: Enrofloxacin: Genotoxicity in vitro : Test Type: Chromosomal aberration Result: positive Genotoxicity in vitro : Test Type: Micronucleus test Species: Mouse Result: negative Test Type: Mammalian bone marrow sister chromatid ex- change Species: Hamster Result: negative				
Test Type : Human repeat insult patch test (HRIPT) Routes of exposure : Skin contact Species : Humans Result : positive Assessment : Probability or evidence of low to moderate skin sensitization rate in humans Germ cell mutagenicity Not classified based on available information. Components: Enrofloxacin: Genotoxicity in vitro : Test Type: Chromosomal aberration Result: positive Genotoxicity in vitro : Test Type: Micronucleus test Species: Mouse Result: negative Test Type: Mammalian bone marrow sister chromatid exchange Species: Hamster Result: negative	Test Route Speci	Type es of exposure les	: Dermal : Guinea pig	
Routes of exposure : Skin contact Species : Humans Result : positive Assessment : Probability or evidence of low to moderate skin sensitization rate in humans Germ cell mutagenicity Not classified based on available information. Components: Enrofloxacin: Genotoxicity in vitro : Test Type: Chromosomal aberration Result: positive Genotoxicity in vivo : Test Type: Micronucleus test Species: Mouse Result: negative Test Type: Mammalian bone marrow sister chromatid exchange Species: Hamster Result: negative Species: Hamster Result: negative		-		
Germ cell mutagenicity Not classified based on available information. Components: Enrofloxacin: Genotoxicity in vitro : Test Type: Chromosomal aberration Result: positive Genotoxicity in vivo : Test Type: Micronucleus test Species: Mouse Result: negative Test Type: Mammalian bone marrow sister chromatid exchange Species: Hamster Result: negative	Route Speci	es of exposure les	: Skin contact : Humans	t insult patch test (HRIPT)
Not classified based on available information. Components: Enrofloxacin: Genotoxicity in vitro : Test Type: Chromosomal aberration Result: positive Genotoxicity in vivo : Test Type: Micronucleus test Species: Mouse Result: negative Test Type: Mammalian bone marrow sister chromatid exchange Species: Hamster Result: negative	Asses	ssment	-	
Components: Enrofloxacin: Genotoxicity in vitro : Test Type: Chromosomal aberration Result: positive Genotoxicity in vivo : Test Type: Micronucleus test Species: Mouse Result: negative Test Type: Mammalian bone marrow sister chromatid exchange Species: Hamster Result: negative				
Enrofloxacin: Genotoxicity in vitro : Test Type: Chromosomal aberration Result: positive Genotoxicity in vivo : Test Type: Micronucleus test Species: Mouse Result: negative Test Type: Mammalian bone marrow sister chromatid exchange Species: Hamster Result: negative			allable information.	
Genotoxicity in vitro : Test Type: Chromosomal aberration Result: positive Genotoxicity in vivo : Test Type: Micronucleus test Species: Mouse Result: negative Test Type: Mammalian bone marrow sister chromatid ex- change Species: Hamster Result: negative				
Species: Mouse Result: negative Test Type: Mammalian bone marrow sister chromatid ex- change Species: Hamster Result: negative				
change Species: Hamster Result: negative	Geno	toxicity in vivo	Species: Mous	se
8 / 15			change Species: Ham	ster
			8 / 15	5





ersion 0	Revision Date: 09/28/2024		S Number: 3938-00022	Date of last issue: 09/30/2023 Date of first issue: 04/27/2016
			Test Type: Chro Species: Rat Result: negative	omosomal aberration
Benz	yl alcohol:			
	toxicity in vitro	:	Test Type: Bac	terial reverse mutation assay (AMES)
			Result: negative	
Geno	toxicity in vivo	:	cytogenetic ass Species: Mouse	e ite: Intraperitoneal injection
	i nogenicity lassified based on avail	able i	information	
	ponents:			
Enro	floxacin:			
Spec	ies	:	Rat	
	cation Route	:	Oral	
Expo Resu	sure time It	:	2 Years negative	
Spec	ies	:	Mouse	
Appli	cation Route	:	Oral	
Expo Resu	sure time It	:	2 Years negative	
Benz	yl alcohol:			
Spec	•	:	Mouse	
Appli	cation Route sure time	:	Ingestion	
Expo Meth		:	103 weeks OECD Test Gui	idalina 451
Resu		:	negative	
Repr	oductive toxicity			
Susp	ected of damaging fertil	ity.		
Com	ponents:			
Enro	floxacin:			
Effec	ts on fertility	:	Species: Rat Application Rou Fertility: LOAEL	-generation study ite: Oral .: 15 mg/kg body weight on fertility., alteration in sperm morphology
Effect	ts on fetal development	:	Test Type: Dev Species: Rat	elopment





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Repro	oductive toxicity - As- nent	:	Result: Reduced Remarks: Materna Test Type: Develor Species: Rabbit Application Route Developmental To Result: No fetotoo Some evidence o	oxicity: LOAEL: 210 mg/kg body weight fetal weight., No teratogenic effects. al toxicity observed.
II Bonzi	d alaahali			
	yl alcohol: s on fertility		Test Type [.] Fertilit	y/early embryonic development
2.1000	o on forally	•	Species: Rat	
			Application Route Result: negative	: Ingestion
				on data from similar materials
Effect	s on fetal development	:	Test Type: Embry Species: Mouse Application Route Result: negative	ro-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.

Components:

_	~	
Fnr	COTION	acin:
	01107	aoni.

Target Organs Assessment	:	cartilage, Testis
Assessment	:	Causes damage to organs through prolonged or repeated
		exposure.

Repeated dose toxicity

Components:

Enrofloxacin:

Species NOAEL LOAEL Application Route Exposure time Target Organs	:	Rat 36 mg/kg 150 mg/kg Oral 13 Weeks Testis
Species NOAEL	:	Dog 3 mg/kg

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Expos	L cation Route sure time t Organs	: 9.6 mg/kg : Oral : 13 Weeks : cartilage	
	EL cation Route sure time	: Cat : 25 mg/kg : Oral : 30 Days : No significar	nt adverse effects were reported
Benz	yl alcohol:		
	EL cation Route sure time	: 28 Days	ust/mist/fume) Guideline 412
	ation toxicity assified based on avai	lable information	
	rience with human ex		
-	oonents:		
Enrof Inges	loxacin: tion		Gastrointestinal disturbance, central nervous sys- Sensitivity to light
SECTION	12. ECOLOGICAL INI	FORMATION	
Ecoto	oxicity		
	oonents:		
	loxacin:		

:	LC50 (Lepomis macrochirus (Bluegill sunfish)): 79.5 mg/l Exposure time: 96 h
	LC50 (Oncorhynchus mykiss (rainbow trout)): > 196 mg/l Exposure time: 96 h
	LC50 (Oryzias latipes (Japanese medaka)): > 100 mg/l Exposure time: 96 h
:	EC50 (Hyalella azteca (Amphipod)): > 206 mg/l Exposure time: 96 h
	EC50 (Daphnia magna (Water flea)): 79.9 mg/l Exposure time: 48 h
:	EC50 (Pseudokirchneriella subcapitata (green algae)): 3.1 mg/l

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II			Exposure time: 72	2 h
			EC50 (Microcystis Exposure time: 5	s aeruginosa (blue-green algae)): 0.049 mg/l d
aquat	ity to daphnia and other tic invertebrates (Chron-	:	NOEC (Daphnia n Exposure time: 21	nagna (Water flea)): 9.8 mg/l d
ic tox	icity)		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
II Benz	yl alcohol:			
Toxic	ity to fish	:	LC50 (Pimephales Exposure time: 96	s promelas (fathead minnow)): 460 mg/l bh
	ity to daphnia and other tic invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: OECD Te	
Toxic plants	ity to algae/aquatic s	:	EC50 (Pseudokiro mg/l Exposure time: 72 Method: OECD Te	
			NOEC (Pseudokir mg/l Exposure time: 72 Method: OECD Te	
	ity to daphnia and other tic invertebrates (Chron- icity)	:	NOEC (Daphnia n Exposure time: 21 Method: OECD Te	
Persi	istence and degradabili	ity		
Com	ponents:			
	yl alcohol: egradability	:	Result: Readily bid Biodegradation: 9 Exposure time: 14	92 - 96 %
Bioa	ccumulative potential			
<u>Com</u>	ponents:			
Partit	floxacin: ion coefficient: n- iol/water	:	log Pow: 0.5	





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Partiti	yl alcohol: on coefficient: n- ol/water ity in soil	: log Pow: 1.05		
Comp	oonents:			
	loxacin: oution among environ- al compartments	: Koc: 5.55		
•	adverse effects ta available			
SECTION	13. DISPOSAL CONSI	DERATIONS		

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
	If not otherwise specified: Dispose of as unused product.
Contaminated packaging	

SECTION 14. TRANSPORT INFORMATION

International Regulations

UNRTDG		
UN number	:	UN 3082
Proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. ()
Class	:	9
Packing group	:	III
Labels	:	9
Environmentally hazardous	:	yes
IATA-DGR		
UN/ID No.	:	UN 3082
Proper shipping name	:	Environmentally hazardous substance, liquid, n.o.s. ()
Class	:	9
Packing group	:	III
Labels	:	Miscellaneous
Packing instruction (cargo aircraft)	:	964
Packing instruction (passen- ger aircraft)	:	964
Environmentally hazardous	:	yes
IMDG-Code		
UN number	:	UN 3082
Proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.



according to the Hazardous Products Regulations

Enrofloxacin (10%) Formulation

Version 7.0	Revision Date: 09/28/2024	SDS Number: 633938-00022	Date of last issue: 09/30/2023 Date of first issue: 04/27/2016
Label EmS	ng group	() : 9 : III : 9 : F-A, S-F : yes	
	sport in bulk accord pplicable for product	-	ARPOL 73/78 and the IBC Code
Dom	estic regulation		
••••	umber er shipping name	N.O.S.	ENTALLY HAZARDOUS SUBSTANCE, LIQUID,
Label ERG	ng group	() : 9 : III : 9 : 171 : yes()	

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

The ingredients of this product are rep	ported in the following inventories:
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AICS	:	not determined
DSL	:	not determined
IECSC	:	not determined

SECTION 16. OTHER INFORMATION

Full text of other abbreviations

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 con-



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centration; 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

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 Date format	:	09/28/2024 mm/dd/yyyy

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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