according to GB/T 16483 and GB/T 17519



Enrofloxacin Liquid (20%) Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 2024/04/06
4.0	2024/07/06	9743102-00009	Date of first issue: 2021/10/13

1. PRODUCT AND COMPANY IDENTIFICATION

Product name	:	Enrofloxacin Liquid (20%) Formulation
Manufacturer or supplier's de Company	etai :	i ls MSD
Address	:	No. 485 Jing Tai Road Pu Tuo District - Shanghai - China 200331
Telephone	:	+1-908-740-4000
Emergency telephone number	:	86-571-87268110
E-mail address	:	EHSDATASTEWARD@msd.com
Recommended use of the ch	em	ical and restrictions on use
Recommended use Restrictions on use	:	Veterinary product Not applicable

2. HAZARDS IDENTIFICATION

Emergency Overview

Appearance Colour Odour	:	Aqueous solution light yellow No data available	
Harmful if swallowed. Causes severe skin burns and eye damage. Suspected of damaging fertil ty. Causes damage to organs through prolonged or repeated exposure. Very toxic to aquatic life with long lasting effects.			
GHS Classification			
Acute toxicity (Oral)	:	Category 4	
Skin corrosion/irritation	:	Category 1A	
Serious eye damage/eye irri- tation	:	Category 1	
Reproductive toxicity	:	Category 2	
Specific target organ toxicity - repeated exposure	:	Category 1	
Short-term (acute) aquatic hazard	:	Category 1	

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Long haza	g-term (chronic) aquatic ard	: Category 1	
GHS	S label elements		
Haza	ard pictograms		
Sign	al word	: Danger	
Haza	ard statements	H361f Suspecte H372 Causes d exposure.	^e swallowed. evere skin burns and eye damage. ed of damaging fertility. amage to organs through prolonged or repeated c to aquatic life with long lasting effects.
Prec	cautionary statements	P202 Do not ha and understood P260 Do not br P264 Wash skii P270 Do not ea P273 Avoid rela P280 Wear pro tion/ face protect Response: P301 + P330 + Do NOT induced CENTER/ docto P303 + P361 + immediately all shower. Immed P304 + P340 + and keep comfo POISON CENT P305 + P351 + water for severa and easy to do. CENTER/ docto P308 + P313 IF attention.	 eathe mist or vapours. in thoroughly after handling. it, drink or smoke when using this product. ease to the environment. tective gloves/ protective clothing/ eye protection. P331 + P310 IF SWALLOWED: Rinse mouth. vomiting. Immediately call a POISON pr. P353 + P310 IF ON SKIN (or hair): Take off contaminated clothing. Rinse skin with water/iately call a POISON CENTER/ doctor. P310 IF INHALED: Remove person to fresh air ortable for breathing. Immediately call a ER/ doctor. P338 + P310 IF IN EYES: Rinse cautiously with al minutes. Remove contact lenses, if present Continue rinsing. Immediately call a POISON or. exposed or concerned: Get medical advice/
		Storage: P405 Store lock	ked up.

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Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

Physical and chemical hazards

Not classified based on available information.

Health hazards

Harmful if swallowed. Causes severe skin burns and eye damage. Causes serious eye damage. Suspected of damaging fertility. Causes damage to organs through prolonged or repeated exposure.

Environmental hazards

Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.

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.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
Enrofloxacin	93106-60-6	>= 20 -< 25
Potassium hydroxide	1310-58-3	>= 5 -< 10
Disodium EDTA, dihydrate	6381-92-6	>= 1 -< 10
Benzyl alcohol	100-51-6	>= 0.1 -< 1

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
If inhaled	advice. : 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.
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 immediately.

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Most	allowed important symptoms effects, both acute and /ed	If vomiting occ Call a physicia Rinse mouth t Never give an Harmful if swa Causes seriou Suspected of	is eye damage. damaging fertility. ge to organs through prolonged or repeated		
	ection of first-aiders	Causes digest Corrosive to re : First Aid respo and use the re when the pote	Causes digestive tract burns. Corrosive to respiratory system. 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).		
	s to physician GHTING MEASURES	: Treat sympton	natically and supportively.		
Suita Unsu medi	ble extinguishing media itable extinguishing a	 Water spray Alcohol-resista Carbon dioxid Dry chemical None known. 	e (CO2)		
fighti	ific hazards during fire- ng Irdous combustion prod-	 Exposure to control Carbon oxides Metal oxides Nitrogen oxide 			
ods Spec	ific extinguishing meth- cial protective equipment refighters	cumstances a Use water spra Remove unda so. Evacuate area : In the event of	ning measures that are appropriate to local cir- nd the surrounding environment. ay to cool unopened containers. maged containers from fire area if it is safe to do a. fire, wear self-contained breathing apparatus. protective equipment.		
6. ACCID	ENTAL RELEASE MEA	SURES			
tive e	onal precautions, protec- equipment and emer- y procedures	Follow safe ha	protective equipment. andling advice (see section 7) and personal pro- nent recommendations (see section 8).		
Envir	onmental precautions	Prevent furthe Prevent sprea barriers).	to the environment. r leakage or spillage if safe to do so. ding over a wide area (e.g. by containment or oil spose of contaminated wash water.		
		4 / 21	1		

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		s and materials for	:	cannot be contain Soak up with iner	should be advised if significant spillages ed. t absorbent material.
	containment and cleaning up			with compressed Dust deposits sho es, as these may leased into the att For large spills, pu ment to keep mat be pumped, store Clean up remainin bent. Local or national posal of this mate employed in the of mine which regula Sections 13 and 1	

7. HANDLING AND STORAGE

Handling	
Technical measures	 Static electricity may accumulate and ignite suspended dust causing an explosion. Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres.
Local/Total ventilation	: If sufficient ventilation is unavailable, use with local exhaust ventilation.
Advice on safe handling	 Do not get on skin or clothing. Do not breathe mist or vapours. Do not swallow. Do not get in eyes. Wash skin thoroughly after handling. Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure assessment Keep container tightly closed. Minimize dust generation and accumulation. Keep container closed when not in use. Keep away from heat and sources of ignition. Take precautionary measures against static discharges. Do not eat, drink or smoke when using this product. Take care to prevent spills, waste and minimize release to the environment.
Avoidance of contact	: Oxidizing agents Acids

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Stor	age		
Cond	ditions for safe storage	Store locked u Keep tightly clo	
Mate	erials to avoid		
Pack	aging material	: Unsuitable ma	terial: None known.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components 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	MAC	2 mg/m3	CN OEL
		С	2 mg/m3	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 equipmen	t
Respiratory protection :	sure assessment demonstrates exposures outside the rec- ommended guidelines, use respiratory protection.
	Particulates type
Eye/face protection :	Wear safety glasses with side shields or goggles. If the work environment or activity involves dusty conditions, mists or aerosols, wear the appropriate goggles. Wear a faceshield or other full face protection if there is a potential for direct contact to the face with dusts, mists, or aerosols.
Skin and body protection : Hand protection	Work uniform or laboratory coat.
Material :	Chemical-resistant gloves
Hygiene measures :	If exposure to chemical is likely during typical use, provide eye flushing systems and safety showers close to the work- ing place.

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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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	Aqueous solution
Colour	:	light yellow
Odour	:	No data available
Odour Threshold	:	No data available
рН	:	10.5 - 12.5
Melting point/freezing point	:	No data available
Initial boiling point and boiling range	:	No data available
Flash point	:	No data available
Evaporation rate	:	No data available
Flammability (solid, gas)	: May form explosive dust-air mixture during processing, han- dling or other means.	
Flammability (liquids)	:	Not applicable
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapour pressure	:	No data available
Relative vapour density	:	No data available
Relative density	:	No data available
Density	:	0.950 - 1.150 g/cm³
Solubility(ies) Water solubility	:	No data available
Partition coefficient: n-	:	Not applicable

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	nol/water ignition temperature	: N	lo data available	9
Deco	mposition temperature	: N	lo data available)
Visco Vi	osity scosity, kinematic	: N	lo data available	9
Explo	osive properties	: N	lot explosive	
	zing properties cular weight		he substance of lo data available	r mixture is not classified as oxidizing.
	cle characteristics cle size	: N	lot applicable	

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, han- dling 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.

11. TOXICOLOGICAL INFORMATION

Exposure routes	:	Inhalation Skin contact Ingestion Eye contact
Acute toxicity Harmful if swallowed.		
Product:		
Acute oral toxicity	:	Acute toxicity estimate: 1,806 mg/kg Method: Calculation method
Acute inhalation toxicity	:	Acute toxicity estimate: > 10 mg/l Exposure time: 4 h Test atmosphere: dust/mist

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				Method: Calculation	on method
	Acute of	dermal toxicity	:	Acute toxicity estine Method: Calculation	mate: > 5,000 mg/kg on method
	Compo	onents:			
	Enrofle	oxacin:			
	Acute	oral toxicity	:	LD50 (Rabbit): 50	0 - 800 mg/kg
				LD50 (Rat): > 5,00	00 mg/kg
				LD50 (Mouse): >	5,000 mg/kg
	Acute	dermal toxicity	:	LD50 (Rabbit): > 2	2,000 mg/kg
	Potass	sium hydroxide:			
	Acute of	oral toxicity	:	LD50 (Rat): 333 n	ng/kg
	Acute i	nhalation toxicity	:	Assessment: Corr	rosive to the respiratory tract.
	Disodi	um EDTA, dihydrate:			
	Acute of	oral toxicity	:	LD50 (Rat): 2,800) mg/kg
	Acute i	nhalation toxicity	:	LC50 (Rat, male): Exposure time: 6 Test atmosphere: Method: OECD Te	h dust/mist
	Benzy	l alcohol:			
	Acute of	oral toxicity	:	LD50 (Rat): 1,620) mg/kg
	Acute i	nhalation toxicity	:	LC50 (Rat): > 4.1 Exposure time: 4 Test atmosphere: Method: OECD Te	h dust/mist
		orrosion/irritation s severe burns.			
	Compo	onents:			
	Enrofle	oxacin:			
	Result		:	No skin irritation	
	Potass	sium hydroxide:			
	Specie	S	:	Rabbit	

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	Result		:	Corrosive after 3 r	minutes or less of exposure
	Benzyl Species	alcohol:		Rabbit	
	Method		:	OECD Test Guide	eline 404
	Result		:	No skin irritation	
	Seriou	s eye damage/eye irr	itati	on	
	Causes	s serious eye damage.			
	Compo	onents:			
	Enrofic	oxacin:			
	Result		:	Mild eye irritation	
	Potass	ium hydroxide:			
	Species	-	:	Rabbit	
	Result		:	Irreversible effects	s on the eye
	Disodi	um EDTA, dihydrate:			
	Species	S	:	Rabbit	
	Result		:	No eye irritation	
	Benzyl	alcohol:			
	Species	6	:	Rabbit	
	Result Method	I	:	Irritation to eyes, I OECD Test Guide	reversing within 21 days aline 405
	mouroe		•		
	Respir	atory or skin sensitis	atio	on	
		ensitisation			
		ssified based on availa	able	information.	
	-	atory sensitisation ssified based on availa	blo	information	
		onents:			
	Enrofic				
	Test Ty		:	Maximisation Tes	t
	Exposu	ire routes	:	Dermal	
	Specie: Result	6	:	Guinea pig Not a skin sensitiz	zer
	. cooun		•		
		ium hydroxide:			
	Test Ty		:	Intracutaneous tes Skin contact	st
	Exposu	ire routes	·	Skin ContaCt	

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				0	
	Species Result	i	:	Guinea pig negative	
	Test Ty	re routes		Maximisation Test Skin contact Guinea pig OECD Test Guide negative Based on data fro	
	Test Ty	re routes	: : : : : : : : : : : : : : : : : : : :	Maximisation Test Skin contact Guinea pig OECD Test Guide negative	
		ell mutagenicity sified based on availa <u>nents:</u>	ble	information.	
	Enroflo Genoto	xacin: kicity in vitro	:	Test Type: Chrom Result: positive	osomal aberration
	Genoto	kicity in vivo	:	Test Type: Micron Species: Mouse Result: negative	ucleus test
				Test Type: Mamm change Species: Hamster Result: negative	nalian bone marrow sister chromatid ex-
				Test Type: Chrom Species: Rat Result: negative	osomal aberration
	Potassi	um hydroxide:			
		kicity in vitro	:	Test Type: Bacter Result: negative	ial reverse mutation assay (AMES)
	Disodiu	ım EDTA, dihydrate:			
		kicity in vitro	:	Result: negative	ial reverse mutation assay (AMES) on data from similar materials
				11/01	

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ersion)	Revision Date: 2024/07/06	SDS Number:Date of last issue: 2024/04/069743102-00009Date of first issue: 2021/10/13			
		Test Type: In vitro mammalian cell gene mutation test Result: negative			
		Test Type: Chromosome aberration test in vitro Result: negative Remarks: Based on data from similar materials			
Genc	otoxicity in vivo	: Test Type: Mammalian erythrocyte micronucleus test (in cytogenetic assay) Species: Mouse Application Route: Ingestion Method: OECD Test Guideline 474 Result: negative	vivo		
Benz	yl alcohol:				
	ptoxicity in vitro	: Test Type: Bacterial reverse mutation assay (AMES) Result: negative			
Geno	otoxicity in vivo	 Test Type: Mammalian erythrocyte micronucleus test (in cytogenetic assay) Species: Mouse Application Route: Intraperitoneal injection Result: negative 	vivo		
Carc	inogenicity				
Not c	lassified based on a	vailable information.			
Com	nononte:				
<u></u>	ponents:				
Enro	floxacin:				
Enro Spec	floxacin: ies	: Rat			
Enro Spec Appli	f loxacin: ies cation Route	: Oral			
Enro Spec Appli	floxacin: ies cation Route sure time				
Enro Spec Appli Expo Resu	floxacin: ies cation Route isure time ilt	: Oral : 2 Years			
Enro Spec Appli Expo Resu Spec Appli	floxacin: ies cation Route sure time ilt ies cation Route	: Oral : 2 Years : negative : Mouse : Oral			
Enro Spec Appli Expo Resu Spec Appli	floxacin: ies cation Route sure time it it ies cation Route sure time	: Oral : 2 Years : negative : Mouse			
Enro Spec Appli Expo Resu Spec Appli Expo Resu	floxacin: ies cation Route sure time it it ies cation Route sure time	 Oral 2 Years negative Mouse Oral 2 Years negative 			
Enro Spec Appli Expo Resu Spec Appli Expo Resu Diso Spec	floxacin: ies cation Route sure time ilt ies cation Route sure time ilt dium EDTA, dihydr ies	: Oral : 2 Years : negative : Mouse : Oral : 2 Years : negative ate: : Rat			
Enro Spec Appli Expo Resu Spec Appli Expo Resu Diso Spec Appli	floxacin: ies cation Route sure time ilt ies cation Route sure time ilt dium EDTA, dihydr ies cation Route	: Oral : 2 Years : negative : Mouse : Oral : 2 Years : negative ate: : Rat : Ingestion			
Enro Spec Appli Expo Resu Spec Appli Expo Resu Diso Spec Appli	floxacin: ies cation Route sure time ilt ies cation Route sure time ilt dium EDTA, dihydr ies cation Route sure time	: Oral : 2 Years : negative : Mouse : Oral : 2 Years : negative ate: : Rat			

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	Specie: Applica	ition Route ire time	:	Mouse Ingestion 103 weeks OECD Test Guide negative	eline 451
	-	ductive toxicity sted of damaging fertilit	v.		
		onents:	,		
	Enrofic	oxacin:			
	Effects	on fertility	:		
	Effects ment	on foetal develop-	:	Result: Reduced f	
	Reprod sessme	luctive toxicity - As- ent	:		f adverse effects on sexual function and animal experiments.
		um EDTA, dihydrate: on fertility	:	Species: Rat Application Route Result: negative	eneration reproduction toxicity study : Ingestion on data from similar materials
	Effects ment	on foetal develop-	:	Test Type: Embry Species: Rat Application Route Result: negative	o-foetal development : Ingestion
		alcohol: on fertility	:	Test Type: Fertilit	y/early embryonic development

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					on data from similar materials
	fects on foe ent	etal develop-	:	Test Type: Embry Species: Mouse Application Route Result: negative	o-foetal development : Ingestion
	-	e exposure based on availa	ble	information.	
Ca	-	0 0	oug	h prolonged or rep	eated exposure.
Er Ta	nrofloxacin arget Organ ssessment		:	cartilage, Testis Causes damage t exposure.	o organs through prolonged or repeated
Ex Ta	sodium EE cposure rou arget Organ ssessment		:	inhalation (dust/m Respiratory Tract May cause damag exposure.	ist/fume) ge to organs through prolonged or repeated
Re	epeated do	se toxicity			
	omponents				
Sp NC LC Ap Ex	nrofloxacin Decies DAEL DAEL oplication Reconstruction oplication Reconstruction oposure time	oute e	:	Rat 36 mg/kg 150 mg/kg Oral 13 Weeks Testis	
NC LC Ap Ex	Decies DAEL DAEL DAEL oplication Reconstruction oposure time arget Organ	е	: : : : :	Dog 3 mg/kg 9.6 mg/kg Oral 13 Weeks cartilage	
	oecies OAEL		:	Cat 25 mg/kg	

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	cation Route sure time arks	:	Oral 30 Days No significant a	dverse effects were reported
Diso	dium EDTA, dihydrat	e:		
Spec NOA Appli	ies	:	Rat 500 mg/kg Ingestion 13 Weeks	
	EL cation Route sure time	: : : : : : : : : : : : : : : : : : : :	Rat 0.03 mg/l inhalation (dust/ 4 Weeks OECD Test Gui	
Spec NOA Appli	EL cation Route sure time	:	Rat 1.072 mg/l inhalation (dust/ 28 Days OECD Test Gui	
Not c	ration toxicity lassified based on ava			
-	rience with human ex	xposu	re	
	ponents: floxacin: stion	:	Symptoms: Gas tem effects, Ser	strointestinal disturbance, central nervous sys- nsitivity to light
12. ECOL		ON		
Ecot	oxicity			
Com	ponents:			
	floxacin: ity to fish	:	LC50 (Lepomis Exposure time:	macrochirus (Bluegill sunfish)): 79.5 mg/l 96 h
			LC50 (Oncorhy Exposure time:	nchus mykiss (rainbow trout)): > 196 mg/l 96 h
			LC50 (Oryzias I Exposure time:	atipes (Japanese medaka)): > 100 mg/l 96 h
			Exposure time:	

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	Toxicity to daphnia and other aquatic invertebrates		EC50 (Hyalella azteca (Amphipod)): > 206 mg/l Exposure time: 96 h		
			EC50 (Daphnia m Exposure time: 48	agna (Water flea)): 79.9 mg/l 3 h	
	Toxicity to algae/aquatic plants		EC50 (Pseudokirchneriella subcapitata (green algae)): 3.1 mg/l Exposure time: 72 h		
			EC50 (Microcystis Exposure time: 5	s aeruginosa (blue-green algae)): 0.049 mg/l d	
	Factor (Acute aquatic tox-	:	10		
To aq	icity) Toxicity to daphnia and other aquatic invertebrates (Chron- ic toxicity)		NOEC (Daphnia r Exposure time: 21	nagna (Water flea)): 9.8 mg/l I d	
ic			NOEC (Daphnia r Exposure time: 21	nagna (Water flea)): 5 mg/l I d	
			LOEC (Daphnia n Exposure time: 21	nagna (Water flea)): 15 mg/l I d	
	Factor (Chronic aquatic kicity)	:	10		
	sodium EDTA, dihydrate:				
То	xicity to fish	:	Exposure time: 96	acrochirus (Bluegill sunfish)): > 100 mg/l 5 h on data from similar materials	
	xicity to daphnia and other uatic invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: DIN 384		
	Toxicity to algae/aquatic plants		mg/l Exposure time: 72 Method: OECD To		
			mg/l Exposure time: 72 Method: OECD To		
aq	xicity to daphnia and other uatic invertebrates (Chron- toxicity)	:	NOEC (Daphnia r Exposure time: 21	nagna (Water flea)): 25 mg/l I d	
	xicity to microorganisms	:	EC10 (activated s	ludge): > 500 mg/l	

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rsion)	Revision Date: 2024/07/06	-	9S Number: 43102-00009	Date of last issue: 2024/04/06 Date of first issue: 2021/10/13	
			Exposure time: 3 Method: OECD T	0 min Test Guideline 209	
Benzy	/l alcohol:				
Toxici	ty to fish	:	LC50 (Pimephale Exposure time: 9	es promelas (fathead minnow)): 460 mg/l 6 h	
	ty to daphnia and other c invertebrates	:	Exposure time: 4	nagna (Water flea)): 230 mg/l 8 h ^r est Guideline 202	
Toxicity to algae/aquatic plants		:	EC50 (Pseudokirchneriella subcapitata (green algae)): 770 mg/l Exposure time: 72 h Method: OECD Test Guideline 201		
			mg/l Exposure time: 7	irchneriella subcapitata (green algae)): 3 2 h ⁻ est Guideline 201	
	ty to daphnia and other c invertebrates (Chron- city)	:	Exposure time: 2	magna (Water flea)): 51 mg/l 1 d ⁻ est Guideline 211	
Persis	stence and degradabili	ity			
<u>Comp</u>	onents:				
	l ium EDTA, dihydrate: gradability	:	Result: Not readi Biodegradation: Exposure time: 2 Method: OECD T	2%	
Benzy	/l alcohol:				
Biode	gradability	:	Result: Readily b Biodegradation: Exposure time: 1	92 - 96 %	
Bioac	cumulative potential				
Comp	onents:				
Partitio	loxacin: on coefficient: n- ol/water	:	log Pow: 0.5		
Disod	lium EDTA, dihydrate:				

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Bioac	cumulation	:	Bioconcentration	is macrochirus (Bluegill sunfish) n factor (BCF): < 500 I on data from similar materials		
	Partition coefficient: n- octanol/water		log Pow: -4.3			
Benzy	yl alcohol:					
Partiti	on coefficient: n- ol/water	:	log Pow: 1.05			
Mobil	ity in soil					
Comp	oonents:					
Enrof	loxacin:					
Distrik	oution among environ- al compartments	:	Koc: 5.55			
Other	adverse effects					
No da	ita available					
3. DISPO	SAL CONSIDERATION	١S				
-	osal methods					
Waste	e from residues	:		of waste into sewer.		
Conta	Contaminated packaging		Dispose of in accordance with local regulations. Empty containers should be taken to an approved waste han dling site for recycling or disposal. If not otherwise specified: Dispose of as unused product.			
4. TRANS	SPORT INFORMATION					
Intern	national Regulations					
UNRT						
UN nu Prope	umber er shipping name	:	UN 1814	DROXIDE SOLUTION		
Class		:	8	BROXIDE SOLO HON		
	ng group	÷	Ű			
Labels		:	8			
Enviro	onmentally hazardous	:	no			
	DGR					
		:	UN 1814			
UN/ID			Potassium hydro	oxide solution		
UN/ID Prope	er shipping name	:	•			
UN/ID Prope Class	er shipping name	:	8			
UN/ID Prope Class Packii	er shipping name ng group	:	8 			
UN/ID Prope Class Packii Labels	er shipping name ng group s	: : : : : : : : : : : : : : : : : : : :	8 II Corrosive			
UN/ID Prope Class Packii Labels Packii	er shipping name ng group s ng instruction (cargo	:	8 			
UN/ID Prope Class Packii Labels Packii aircra	er shipping name ng group s ng instruction (cargo	· · · · · · · · · · · · · · · · · · ·	8 II Corrosive			

according to GB/T 16483 and GB/T 17519



Enrofloxacin Liquid (20%) Formulation

	f last issue: 2024/04/06 f first issue: 2021/10/13
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ger aircraft)

IMDG-Code	
UN number	: UN 1814
Proper shipping name	: POTASSIUM HYDROXIDE SOLUTION (Enrofloxacin)
Class	: 8
Packing group	: 11
Labels	: 8
EmS Code	: F-A, S-B
Marine pollutant	: yes

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

Not applicable for product as supplied.

National Regulations

GB 6944/12268

UN number	:	UN 1814
Proper shipping name	:	POTASSIUM HYDROXIDE SOLUTION
Class	:	8
Packing group	:	II
Labels	:	8
Marine pollutant	:	no

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.

15. REGULATORY INFORMATION

National regulatory information

Law on the Prevention and Control of Occupational Diseases

Regulation on the Administration of Precursor Chemicals

Catalogue and Classification of Precursor Chemicals : Not listed

Yangtze River Protection Law

This product does not contain any dangerous chemicals prohibited for inland river transport.

The components of this product are reported in the following inventories:

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

16. OTHER INFORMATION

Sheet



the

according to GB/T 16483 and GB/T 17519

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Version 4.0	Revision Date: 2024/07/06		DS Number: 43102-00009	Date of last issue: 2024/04/06 Date of first issue: 2021/10/13
	202 1/01/00	0.	10102 00000	
Revisi	on Date	:	2024/07/06	
Furthe	er information			
Source	es of key data used to	:	Internal technic	al data, data from raw material SDSs, OECD

compile the Safety Data eChem Portal search results and European Chemicals Agency, 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.

Date format	:	yyyy/mm/dd
Full text of other abbreviatio	ns	
ACGIH CN OEL		USA. ACGIH Threshold Limit Values (TLV) Occupational exposure limits for hazardous agents in workplace - Chemical hazardous agents.
ACGIH / C CN OEL / MAC	:	Ceiling limit Maximum allowable concentration

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 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

according to GB/T 16483 and GB/T 17519



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Version	Revision Date:	SDS Number:	Date of last issue: 2024/04/06
4.0	2024/07/06	9743102-00009	Date of first issue: 2021/10/13

Disclaimer

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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