

Version 5.0	Revision Date: 06.07.2024		S Number: 43103-00009	Date of last issue: 06.04.2024 Date of first issue: 13.10.2021	
SECTION 1. IDENTIFICATION					
Produ	Product name		Enrofloxacin Liquid (20%) Formulation		
Manu	afacturer or supplier's	s deta	ils		
Com	bany	:	MSD		
Address		:	Talcahuano 750, 6th floor, Ciudad Autonoma Buenos Aires, Argentina C1013AAP		
Telep	Telephone		908-740-4000		
Emer	Emergency telephone		1-908-423-6000		
E-mail address		:	EHSDATASTEWARD@msd.com		
Reco	mmended use of the	chem	ical and restricti	ons on use	
Recommended use Restrictions on use		:	Veterinary product Not applicable		

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification		
Acute toxicity (Oral)	:	Category 4
Skin corrosion/irritation	:	Sub-category 1A
Serious eye damage/eye irritation	:	Category 1
Reproductive toxicity	:	Category 2
Specific target organ toxicity - repeated exposure	:	Category 1 (cartilage, Testis)
Short-term (acute) aquatic hazard	:	Category 1
Long-term (chronic) aquatic hazard	:	Category 1
GHS label elements		
Hazard pictograms	:	
Signal Word	:	Danger



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Hazard Statements :		H314 Causes s H361f Suspect H372 Causes o prolonged or re	 H302 Harmful if swallowed. H314 Causes severe skin burns and eye damage. H361f Suspected of damaging fertility. H372 Causes damage to organs (cartilage, Testis) through prolonged or repeated exposure. H410 Very toxic to aquatic life with long lasting effects. 				
Preca	utionary Statements	P202 Do not ha and understood P260 Do not br P264 Wash ski P270 Do not ea P273 Avoid rela	eathe mist or vapors. n thoroughly after handling. at, drink or smoke when using this product. ease to the environment. tective gloves/ protective clothing/ eye protec-				
		Response:					
		P301 + P330 + Do NOT induce CENTER/ doct P303 + P361 + immediately all shower. Immed P304 + P340 + and keep comf POISON CENT P305 + P351 + water for sever and easy to do CENTER/ doct P308 + P313 If attention.	 P353 + P310 IF ON SKIN (or hair): Take off contaminated clothing. Rinse skin with water or diately call a POISON CENTER/ doctor. P310 IF INHALED: Remove person to fresh air ortable for breathing. Immediately call a TER/ doctor. P338 + P310 IF IN EYES: Rinse cautiously with al minutes. Remove contact lenses, if present Continue rinsing. Immediately call a POISON or. F exposed or concerned: Get medical advice/ 				
		Storage:					
		P405 Store loc	ked up.				
		Disposal: P501 Dispose d disposal plant.	of contents/ container to an approved waste				
Corro May f	Other hazards which do not result in classification Corrosive to the respiratory tract. May form explosive dust-air mixture during processing, handling or other means. SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS						

Substance / Mixture

Components

: Mixture



>= 0,1 -< 1

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_	Cherr	nical name		CAS-No.	Concentration (% w/w)
	Enrof	loxacin		93106-60-6	>= 20 -< 25
	Potas	sium hydroxide		1310-58-3	>= 5 -< 10
	Disod	lium EDTA, dihydrate		6381-92-6	>= 1 -< 5

100-51-6

General advice	In the case of accident or if you feel unwell, seek advice immediately. When symptoms persist or in all cases of doubt	
If inhaled	advice. If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.	
In case of skin contact	In case of contact, immediately flush skin with pl for at least 15 minutes while removing contamina and shoes. Get medical attention immediately. Wash clothing before reuse. Thoroughly clean shoes before reuse.	
In case of eye contact	In case of contact, immediately flush eyes with p for at least 15 minutes. If easy to do, remove contact lens, if worn. Get medical attention immediately.	lenty of water
If swallowed	If swallowed, DO NOT induce vomiting. If vomiting occurs have person lean forward. Call a physician or poison control center immedia Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious	-
Most important symptoms and effects, both acute and delayed	Harmful if swallowed. Causes serious eye damage. Suspected of damaging fertility. Causes damage to organs through prolonged or exposure. Causes severe burns. Causes digestive tract burns. Corrosive to respiratory system.	
Protection of first-aiders	First Aid responders should pay attention to self- and use the recommended personal protective e when the potential for exposure exists (see secti	quipment
Notes to physician	Treat symptomatically and supportively.	

SECTION 4. FIRST AID MEASURES

Benzyl alcohol

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.



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	Hazardo ucts	ous combustion prod-	:	Carbon oxides Metal oxides Nitrogen oxides (N	NOx)	
	Specific ods	extinguishing meth-	:	: Use extinguishing measures that are appropriate to loca cumstances and the surrounding environment. Use water spray to cool unopened containers. Remove undamaged containers from fire area if it is saf so.		
	Special or fire-fi	protective equipment ighters	:	Evacuate area. In the event of fire Use personal prot	e, wear self-contained breathing apparatus. ective equipment.	
SECT	ION 6.	ACCIDENTAL RELE	ASE	E MEASURES		
ti	ive equ	al precautions, protec- ipment and emer- rocedures	:		ective equipment. ing advice (see section 7) and personal ent recommendations (see section 8).	
E	Environi	mental precautions	:	Prevent spreading oil barriers). Retain and dispos	akage or spillage if safe to do so. g over a wide area (e.g., by containment or se of contaminated wash water. should be advised if significant spillages	
	Methods and materials for containment and cleaning up		:	Avoid dispersal of with compressed a 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 Sections 13 and 1	absorbent material. dust in the air (i.e., clearing dust surfaces air). uld not be allowed to accumulate on a may form an explosive mixture if they are atmosphere in sufficient concentration. ovide diking or other appropriate ep material from spreading. If diked material tore recovered material in appropriate ang materials from spill with suitable egulations may apply to releases and aterial, as well as those materials and items leanup of releases. You will need to egulations are applicable. 5 of this SDS provide information regarding 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	:	If sufficient ventilation is unavailable, use with local exhaust



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Advice on safe handling		Handle in accord practice, based assessment Keep container t Minimize dust ge Keep container o Keep away from Take precaution Do not eat, drink	nist or vapors. es. ughly after handling. dance with good industrial hygiene and safety on the results of the workplace exposure			
Conc	litions for safe storage	 Keep in properly labeled containers. Store locked up. Keep tightly closed. 				
Mate	rials to avoid	: Do not store with Strong oxidizing	ostances and mixtures			

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Enrofloxacin	93106-60-6	TWA	0.2 mg/m3 (OEB 2)	Internal
Potassium hydroxide	1310-58-3	CMP-C	2 mg/m ³	AR OEL
		С	2 mg/m ³	ACGIH

Engineering measures :	Use appropriate engineering controls and manufacturing technologies to control airborne concentrations (e.g., drip- less quick connections). All engineering controls should be implemented by facility design and operated in accordance with GMP principles to protect products, workers, and the environment. Laboratory operations do not require special containment.
Personal protective equipmer	it
Respiratory protection :	If adequate local exhaust ventilation is not available or exposure assessment demonstrates exposures outside the recommended guidelines, use respiratory protection.
Filter type : Hand protection	Particulates type



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M	aterial	: Chemical-res	istant gloves	
Eye p	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 Hygiene measures		 Work uniform or laboratory coat. If exposure to chemical is likely during typical use, provide eye flushing systems and safety showers close to the working place. When using do not eat, drink or smoke. Wash contaminated clothing before re-use. The effective operation of a facility should include review of engineering controls, proper personal protective equipment, appropriate degowning and decontamination procedures, industrial hygiene monitoring, medical surveillance and the use of administrative controls. 		
	9. PHYSICAL AND C			
Appe	arance	: Aqueous sol	ution	

Appearance	·	Aqueous solution
Color	:	light yellow
Odor	:	No data available
Odor Threshold	:	No data available
рН	:	10,5 - 12,5
Melting point/freezing point	:	No data available
Initial boiling point and boiling range	:	No data available
Flash point	:	No data available
Evaporation rate	:	No data available
Flammability (solid, gas)	:	May form explosive dust-air mixture during processing, handling 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
Vapor pressure	:	No data available
Relative vapor density	:	No data available



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R	elative density	: No data available	
D	ensity	: 0,950 - 1,150 g/cm ³	
Solubility(ies) Water solubility Partition coefficient: n- octanol/water Autoignition temperature		: No data available	
		: Not applicable	
		: No data available	
Decomposition temperature		: No data available	
Vi	scosity Viscosity, kinematic	: No data available	
E	xplosive properties	: Not explosive	
O	xidizing properties	: The substance or mixture is not classified as	oxidizing.
М	olecular weight	: No data available	
	article characteristics article 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. 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 Harmful if swallowed.	
Product:	
Acute oral toxicity :	Acute toxicity estimate: 1.806 mg/kg



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			Method: Calculati	on method
Acut	e inhalation toxicity	:	Acute toxicity esti Exposure time: 4 Test atmosphere: Method: Calculati	h dust/mist
Acut	e dermal toxicity	:	Acute toxicity esti Method: Calculati	mate: > 5.000 mg/kg on method
Com	ponents:			
Enro	ofloxacin:			
Acut	e oral toxicity	:	LD50 (Rabbit): 50	0 - 800 mg/kg
			LD50 (Rat): > 5.0	00 mg/kg
			LD50 (Mouse): >	5.000 mg/kg
Acut	e dermal toxicity	:	LD50 (Rabbit): > 2	2.000 mg/kg
Pota	ssium hydroxide:			
Acut	e oral toxicity	:	LD50 (Rat): 333 r	ng/kg
Acut	e inhalation toxicity	:	Assessment: Corr	rosive to the respiratory tract.
Diso	dium EDTA, dihydrate:			
Acut	e oral toxicity	:	LD50 (Rat): 2.800) mg/kg
Acut	e inhalation toxicity	:	LC50 (Rat, male): Exposure time: 6 Test atmosphere: Method: OECD T	h dust/mist
	zyl alcohol:			<i>"</i>
	e oral toxicity	:		
Acut	e inhalation toxicity	:	LC50 (Rat): > 4,1 Exposure time: 4 Test atmosphere: Method: OECD T	h dust/mist
-	corrosion/irritation ses severe burns.			
Com	ponents:			
Enro Resu	ofloxacin: ult	:	No skin irritation	
Pota	ssium hydroxide:			



ersion)	Revision Date: 06.07.2024	SDS Number:Date of last issue: 06.04.20249743103-00009Date of first issue: 13.10.2021				
Speci Resul		: Rabbit : Corrosive after 3 minutes or less of exposure				
D						
	yl alcohol:					
Speci Metho		: Rabbit : OECD Test Guideline 404				
Resul		: No skin irritation				
Serious eye damage/eye irritation						
Cause	es serious eye dama	ge.				
<u>Comp</u>	oonents:					
Enrof	loxacin:					
Resul	t	: Mild eye irritation				
Potas	sium hydroxide:					
Speci		: Rabbit				
Resul	t	: Irreversible effects on the eye				
Disod	lium EDTA, dihydra	te:				
Speci		: Rabbit				
Resul	t	: No eye irritation				
Benz	yl alcohol:					
Speci	es	: Rabbit				
Resul	t	: Irritation to eyes, reversing within 21 days				
Metho	od	: OECD Test Guideline 405				
Resp	iratory or skin sens	itization				
Skin	sensitization					
Not cl	assified based on av	ailable information.				
Resp	iratory sensitizatior	1				
Not cl	assified based on av	ailable information.				
<u>Comp</u>	oonents:					
-	loxacin:					
Test		: Maximization Test				
	s of exposure	: Dermal				
Speci Resul		: Guinea pig : Not a skin sensitizer.				
Potas	sium hydroxide:					
Test 1	•	: Intracutaneous test				
Route	s of exposure	: Skin contact				
	es	: Guinea pig : negative				



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Dis	odium EDTA, dihydrate:			
Te: Ro Spi Me Re	st Type utes of exposure ecies thod sult marks	:	Maximization Test Skin contact Guinea pig OECD Test Guide negative Based on data fro	
Ве	nzyl alcohol:			
Te: Ro Spe Me	st Type utes of exposure ecies thod sult		Maximization Test Skin contact Guinea pig OECD Test Guide negative	
	rm cell mutagenicity t classified based on availa	ble	information.	
<u>Co</u>	mponents:			
	rofloxacin:			
Ge	notoxicity in vitro	:	Test Type: Chrom Result: positive	osomal aberration
Ge	notoxicity in vivo	•	Test Type: Micron Species: Mouse Result: negative	ucleus test
		Test Type: Mammalian bone marrow sister chromatid change Species: Hamster Result: negative		
			Test Type: Chrom Species: Rat Result: negative	osomal aberration
Po	tassium hydroxide:			
	notoxicity in vitro	:	Test Type: Bacter Result: negative	ial reverse mutation assay (AMES)
Dis	odium EDTA, dihydrate:			
Ge	notoxicity in vitro	:	Result: negative	ial reverse mutation assay (AMES) on data from similar materials
			Test Type: In vitro Result: negative	mammalian cell gene mutation test
			Result: negative	osome aberration test in vitro



ersion D	Revision Date: 06.07.2024	SDS Number: 9743103-00009	Date of last issue: 06.04.2024 Date of first issue: 13.10.2021
Geno	otoxicity in vivo	cytogenetic as Species: Mous Application Ro	e ute: Ingestion) Test Guideline 474
Benz	yl alcohol:		
Geno	otoxicity in vitro	: Test Type: Bac Result: negativ	terial reverse mutation assay (AMES) e
Geno	otoxicity in vivo	cytogenetic as Species: Mous	e ute: Intraperitoneal injection
Carc	inogenicity		
Not c	lassified based on available	ailable information.	
<u>Com</u>	ponents:		
Enro	floxacin:		
	cation Route sure time	: Rat : Oral : 2 Years : negative	
	cation Route sure time	: Mouse : Oral : 2 Years : negative	
Diso	dium EDTA, dihydra	te:	
Spec Appli	ies cation Route sure time llt	: Rat : Ingestion : 103 weeks : negative	from similar materials
Resu Rem			
Resu Rem	yl alcohol:		



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	Compo	onents:			
	Enrofle	oxacin:			
		on fertility	:		-
	Effects	on fetal development	:	Result: Reduced	
	Reproc sessme	ductive toxicity - As- ent	:		f adverse effects on sexual function and animal experiments.
	Disodi	um EDTA, dihydrate:			
		on fertility	:	Species: Rat Application Route Result: negative	generation reproduction toxicity study :: Ingestion on data from similar materials
	Effects	on fetal development	:	Test Type: Embry Species: Rat Application Route Result: negative	vo-fetal development :: Ingestion
	Benzy	l alcohol:			
	-	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	vo-fetal development

STOT-single exposure

Not classified based on available information.





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стот	-repeated exposure	•	
			igh prolonged or repeated exposure.
	oonents:		
	loxacin:		
		: cartilage, Testis	
	et Organs ssment		e to organs through prolonged or repeated
Disod	lium EDTA, dihydra	te:	
Route	es of exposure	: inhalation (dust	/mist/fume)
	t Organs	: Respiratory Tra	ct
Asses	ssment	: May cause dan exposure.	hage to organs through prolonged or repeated
Repe	ated dose toxicity		
Comp	oonents:		
Enrof	loxacin:		
Speci		: Rat	
NOAE		: 36 mg/kg	
LOAE	:∟ cation Route	: 150 mg/kg : Oral	
	sure time	: 13 Weeks	
	et Organs	: Testis	
Speci	es	: Dog	
NOAE		: 3 mg/kg	
LOAE		: 9,6 mg/kg	
	cation Route	: Oral	
	sure time	: 13 Weeks	
rarge	et Organs	: cartilage	
Speci		: Cat	
NOAE		: 25 mg/kg	
	cation Route	: Oral	
Rema	sure time	: 30 Days	dverse effects were reported
T Como		. No significant a	
	lium EDTA, dihydra	te:	
Speci		: Rat	
NOAE	L cation Route	: 500 mg/kg : Ingestion	
	sure time	: 13 Weeks	
Speci	es	: Rat	
LÖAE	E	: 0,03 mg/l	
	cation Route	: inhalation (dust	/mist/fume)
	sure time	: 4 Weeks	
Metho	Da	: OECD Test Gu	ideline 412



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S A E	Specie: NOAEL Applica	- tion Route ıre time		Rat 1,072 mg/l inhalation (dust/m 28 Days OECD Test Guide			
Ν	lot cla	tion toxicity ssified based on availa ence with human exp					
	Components:						
E		oxacin:	:	Symptoms: Gastro tem effects, Sensi	ointestinal disturbance, central nervous sys- itivity to light		
SECT	ION 1	2. ECOLOGICAL INFO	ORN	IATION			
E	Ecotox	licity					
<u>C</u>	Compo	onents:					
		oxacin: / to fish	:	LC50 (Lepomis m Exposure time: 96	acrochirus (Bluegill sunfish)): 79,5 mg/l ১h		
				LC50 (Oncorhync Exposure time: 96	hus mykiss (rainbow trout)): > 196 mg/l S h		
				LC50 (Oryzias lat Exposure time: 96	ipes (Japanese medaka)): > 100 mg/l S h		
		v to daphnia and other invertebrates	:	EC50 (Hyalella az Exposure time: 96	zteca (Amphipod)): > 206 mg/l S h		
				EC50 (Daphnia m Exposure time: 48	agna (Water flea)): 79,9 mg/l 3 h		
	oxicity ants	/ to algae/aquatic	:	EC50 (Pseudokiro mg/l Exposure time: 72	chneriella subcapitata (green algae)): 3,1 2 h		
				EC50 (Microcystis Exposure time: 5	s aeruginosa (blue-green algae)): 0,049 mg/l d		
		or (Acute aquatic tox-	:	10			
T a		v to daphnia and other invertebrates (Chron-	:	NOEC (Daphnia r Exposure time: 21	nagna (Water flea)): 9,8 mg/l I d		
iC		, τ.,		NOEC (Daphnia r Exposure time: 21	nagna (Water flea)): 5 mg/l ⊢d		



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	M-Factor (Chronic aquatic toxicity) Disodium EDTA, dihydrate: Toxicity to fish Toxicity to daphnia and other aquatic invertebrates			LOEC (Daphnia magna (Water flea)): 15 mg/l Exposure time: 21 d			
			:	10			
			:	 LC50 (Lepomis macrochirus (Bluegill sunfish)): > 100 mg/l Exposure time: 96 h Remarks: Based on data from similar materials 			
			:	EC50 (Daphnia m Exposure time: 48 Method: DIN 3847			
	Toxicity plants	to algae/aquatic	:	mg/l Exposure time: 72 Method: OECD Te			
				mg/l Exposure time: 72 Method: OECD To			
	Toxicity to daphnia and other aquatic invertebrates (Chron- ic toxicity)		:	NOEC (Daphnia r Exposure time: 21	nagna (Water flea)): 25 mg/l ⊢d		
		to microorganisms	:	EC10 (activated s Exposure time: 30 Method: OECD To			
	Benzyl	alcohol:					
	Toxicity	r to fish	:	LC50 (Pimephales Exposure time: 96	s promelas (fathead minnow)): 460 mg/l S h		
		to daphnia and other invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: OECD Te			
	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			
		r to daphnia and other invertebrates (Chron- ty)	:	NOEC (Daphnia r Exposure time: 21 Method: OECD To			



rsion	Revision Date: 06.07.2024		OS Number: 43103-00009	Date of last issue: 06.04.2024 Date of first issue: 13.10.2021
Persi	stence and degradab	ility		
Comp	oonents:			
	dium EDTA, dihydrate gradability	:	Biodegradation: Exposure time:	
	yl alcohol: gradability	:	Result: Readily Biodegradation: Exposure time:	92 - 96 %
Bioad	cumulative potential			
Com	oonents:			
Partiti	f loxacin: ion coefficient: n- ol/water	:	log Pow: 0,5	
	lium EDTA, dihydrate	:		
	cumulation	:	Bioconcentratio	is macrochirus (Bluegill sunfish) n factor (BCF): < 500 d on data from similar materials
	ion coefficient: n- ol/water	:	log Pow: -4,3	
Partiti	yl alcohol: ion coefficient: n- ol/water	:	log Pow: 1,05	
Mobi	lity in soil			
Com	oonents:			
Distri	floxacin: oution among environ- al compartments	:	Koc: 5,55	
	r adverse effects ata available			

Disposal methods		
Waste from residues	: Do not dispose of waste into sewer. Dispose of in accordance with local regulations.	
Contaminated packaging	 Empty containers should be taken to an approved was handling site for recycling or disposal. 	te



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		ľ	f not otherwise s	specified: Dispose of as unused product.		
SECTIO	N 14. TRANSPORT INFO	RMA	TION			
Inte	rnational Regulations					
UN Proj Clas Pac Lab	king group	: F : 8 : 1 : 8	3 I	DROXIDE SOLUTION		
UN/ Proj Clas Pac Lab Pac airc Pac	king group els king instruction (cargo	: F : 8 : 1 : 0 : 8		xide solution		
IMD UN Proj Clas Pac Lab Ems Mar	PG-Code number per shipping name ss king group els S Code ine pollutant	: F (: 8 : 1 : 8 : 7 : 9	Enrofloxacin) 3 I A, S-B /es	DROXIDE SOLUTION		
Tra	Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code					

Not applicable for product as supplied.

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

Safety, health and environmental regulations/legisla mixture	atio	n specific for the substance or
Argentina. Carcinogenic Substances and Agents Registry.	:	Not applicable
Control of precursors and essential chemicals for the preparation of drugs.	:	Not applicable

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



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AICS		: not determined	
DSL		: not determined	
IECSC	2	: not determined	

SECTION 16. OTHER INFORMATION

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Further information

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

Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

Full text of other abbreviations

ACGIH AR OEL	USA. ACGIH Threshold Limit Values (TLV) Argentina. Occupational Exposure Limits
ACGIH / C AR OEL / CMP-C	Ceiling limit Ceiling value

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



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stances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

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

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