

Version	Revision Date:	SDS Number:	Date of last issue: 30.09.2023
5.0	06.04.2024	1241628-00020	Date of first issue: 26.01.2017

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier Trade name	:	Enrofloxacin / Diclofenac Liquid Formulation
1.2 Relevant identified uses of	the s	ubstance or mixture and uses advised against
Use of the Sub- stance/Mixture	:	Veterinary product
Recommended restrictions on use	:	Not applicable
1.3 Details of the supplier of th	e saf	ety data sheet
Company	:	MSD Kilsheelan Clonmel Tipperary, IE
Telephone	:	353-51-601000

: EHSDATASTEWARD@msd.com

1.4 Emergency telephone number

E-mail address of person

responsible for the SDS

1-908-423-6000

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Skin corrosion, Category 1 Serious eye damage, Category 1 Reproductive toxicity, Category 2 Specific target organ toxicity - repeated exposure, Category 1 Short-term (acute) aquatic hazard, Category 1 Long-term (chronic) aquatic hazard, Category 1 H314: Causes severe skin burns and eye damage.
H318: Causes serious eye damage.
H361f: Suspected of damaging fertility.
H372: Causes damage to organs through prolonged or repeated exposure.
H400: Very toxic to aquatic life.

H410: Very toxic to aquatic life with long lasting effects.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Commission Regulation (EU) 2020/878

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Hazard pictograms :		:		
Sigr	nal word	:	Danger	•
Haz	ard statements		H361f Susp H372 Caus	ees severe skin burns and eye damage. ected of damaging fertility. ses damage to organs through prolonged or ated exposure.
				toxic to aquatic life with long lasting effects.
Pre	cautionary statements	•	Prevention: P201 Obta	in special instructions before use.
			P273 Avoid P280 Weat	d release to the environment. r protective gloves/ protective clothing/ eye ction/ face protection.
			Response:	
			with	B53 + P310 IF ON SKIN (or hair): Take off ediately all contaminated clothing. Rinse skin water or shower. Immediately call a POISON TER/ doctor.
			lense	B38 + P310 IF IN EYES: Rinse cautiously water for several minutes. Remove contact es, if present and easy to do. Continue rins- mmediately call a POISON CENTER/ doctor.
				ect spillage.

Hazardous components which must be listed on the label:

Enrofloxacin

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

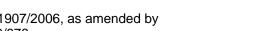
Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components			
Chemical name	CAS-No.	Classification	Concentration

SAFETY DATA SHEET





according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878

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		EC-No. Index-No. Registration numbe	er	(% w/w)
Enrof	loxacin	93106-60-6	Acute Tox. 4; H302 Repr. 2; H361f STOT RE 1; H372 (cartilage, Testis) Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 10 M-Factor (Chronic aquatic toxicity): 10	>= 10 - < 20
Benz	yl alcohol	100-51-6 202-859-9 603-057-00-5	Acute Tox. 4; H302 Acute Tox. 4; H332 Eye Irrit. 2; H319 Acute toxicity esti- mate Acute oral toxicity: 1,620 mg/kg	>= 1 - < 10
dichlo	ım [2-[(2,6- oro- yl)amino]phenyl]acetate	15307-79-6 239-346-4	Acute Tox. 3; H301 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Repr. 2; H361d STOT RE 1; H372 (Gastrointestinal tract, Blood, lymphat- ic system, Liver, Prostate) Aquatic Chronic 2; H411	>= 1 - < 2.5

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice	:	In the case of accident or if you feel unwell, seek medical ad- vice immediately. When symptoms persist or in all cases of doubt seek medical advice.
Protection of first-aiders	:	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).



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If inhaled		:		ive artificial respiration. icult, give oxygen.	
In case of skin contact		:	for at least 15 mir and shoes. Get medical atter Wash clothing be		
In cas	se of eye contact	:	for at least 15 mir	ove contact lens, if worn.	
If swallowed		:	If vomiting occurs Call a physician of Rinse mouth thor	NOT induce vomiting. have person lean forward. or poison control centre immediately. oughly with water. ng by mouth to an unconscious person.	
4.2 Most i	mportant symptoms a	nd e	effects, both acute	e and delayed	
Risks		:	Causes serious e Suspected of dan	ye damage. naging fertility. to organs through prolonged or repeated	
			Causes digestive	tract burns.	
4.3 Indica	tion of any immediate	me	dical attention and	d special treatment needed	
Treat	-	:		cally and supportively.	
SECTION	SECTION 5: Firefighting measures				
E 1 Extina	wiching modia				
5.1 Extinguishing media Suitable extinguishing media		:	Water spray Alcohol-resistant Carbon dioxide (C Dry chemical		

Unsuitable extinguishing : None known. media

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire- : Exposure to combustion products may be a hazard to health. fighting



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	Hazardous ucts	s combustion prod-	:	Carbon oxides Chlorine compour Nitrogen oxides (1 Sodium oxides	
5.3 Advice for firefighters Special protective equipment for firefighters		:		e, wear self-contained breathing apparatus. ective equipment.	
	Specific ex ods	xtinguishing meth-	:	cumstances and t Use water spray t	measures that are appropriate to local cir- he surrounding environment. o cool unopened containers. ged containers from fire area if it is safe to do

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions	:	Use personal protective equipment. Follow safe handling advice (see section 7) and personal pro- tective equipment recommendations (see section 8).
6.2 Environmental precautions		
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.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up	: Soak up with inert absorbent material. For large spills, provide dyking or other appropriate contain- ment to keep material from spreading. If dyked material can be pumped, store recovered material in appropriate container.	
	Clean up remaining materials from spill with suitable absor- bent. Local or national regulations may apply to releases and dis- posal of this material, as well as those materials and items employed in the cleanup of releases. You will need to deter- mine which regulations are applicable. Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.	

6.4 Reference to other sections

See sections: 7, 8, 11, 12 and 13.



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SECTION 7: Handling and storage

7.1 Precautions for safe handling	
Technical measures :	See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.
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 as- sessment Keep container tightly closed. Do not eat, drink or smoke when using this product. Take care to prevent spills, waste and minimize release to the environment.
Hygiene measures :	If exposure to chemical is likely during typical use, provide eye flushing systems and safety showers close to the working place. When using do not eat, drink or smoke. Wash contami- nated 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.
7.2 Conditions for safe storage, in	cluding any incompatibilities
Requirements for storage : areas and containers	Keep in properly labelled containers. Store locked up. Keep tightly closed. Store in accordance with the particular national regulations.
Advice on common storage :	Do not store with the following product types: Strong oxidizing agents Self-reactive substances and mixtures Organic peroxides Explosives Gases

7.3 Specific end use(s)

Specific use(s)

: No data available

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components CAS-	-No. Value type (Form	Control parameters	Basis

SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006. a



according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878

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			of exposure)		
	Propylene glycol	57-55-6	OELV - 8 hrs	10 mg/m3	IE OEL
			(TWA) (particles)	-	

		(TWA) (particles)	-					
		OELV - 8 hrs (TWA) (total (va- pour and parti- cles))	150 ppm 470 mg/m3	IE OEL				
Enrofloxacin	93106-60-6	TWA	0.2 mg/m3 (OEB 2)	Internal				
Sodium [2-[(2,6- dichloro- phe- nyl)amino]phenyl]a cetate	15307-79-6	TWA	100 µg/m3 (OEB 2)	Internal				
	Further inform	Further information: Skin						

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health ef- fects	Value
Benzyl alcohol	Workers	Inhalation	Long-term systemic effects	22 mg/m3
	Workers	Inhalation	Acute systemic ef- fects	110 mg/m3
	Workers	Skin contact	Long-term systemic effects	8 mg/kg bw/day
	Workers	Skin contact	Acute systemic ef- fects	40 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	5.4 mg/m3
	Consumers	Inhalation	Acute systemic ef- fects	27 mg/m3
	Consumers	Skin contact	Long-term systemic effects	4 mg/kg bw/day
	Consumers	Skin contact	Acute systemic ef- fects	20 mg/kg bw/day
	Consumers	Ingestion	Long-term systemic effects	4 mg/kg bw/day
	Consumers	Ingestion	Acute systemic ef- fects	20 mg/kg bw/day
Propylene glycol	Workers	Inhalation	Long-term local ef- fects	10 mg/m3
	Workers	Inhalation	Long-term systemic effects	168 mg/m3
	Consumers	Inhalation	Long-term local ef- fects	10 mg/m3
	Consumers	Inhalation	Long-term systemic effects	50 mg/m3

Substance name	Environmental Compartment	Value
Benzyl alcohol	Fresh water	1 mg/l
	Marine water	0.1 mg/l

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Propy	/lene glycol	Intermittent us Sewage treati Fresh water s Marine sedim Soil Fresh water Freshwater - i	ment plant ediment ent	2.3 mg/l 39 mg/l 5.27 mg/kg 0.527 mg/kg 0.456 mg/kg 260 mg/l 183 mg/l
		Marine water Sewage treatu Fresh water s	•	26 mg/l 20000 mg/l 572 mg/kg dry weight (d.w.)
		Marine sedim	ent	57.2 mg/kg dry weight (d.w.) 50 mg/kg dry weight (d.w.)

8.2 Exposure controls

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 equipment

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.
Hand protection		
Material	:	Chemical-resistant gloves
Skin and body protection Respiratory protection	:	Work uniform or laboratory coat. If adequate local exhaust ventilation is not available or expo- sure assessment demonstrates exposures outside the rec- ommended guidelines, use respiratory protection. Equipment should conform to I.S. EN 14387
Filter type	:	Combined particulates and organic vapour type (A-P)

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	:	liquid
Colour	:	light yellow
Odour	:	No data available
Odour Threshold	:	No data available



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	Melting	point/freezing point	:	No data available	9
	Initial b range	oiling point and boiling	:	No data available	
	Flamma	ability (solid, gas)	:	Not applicable	
	Flamma	ability (liquids)	:	No data available)
		explosion limit / Upper bility limit	:	No data available	
		explosion limit / Lower bility limit	:	No data available	
	Flash p	oint	:	No data available	
	Auto-ig	nition temperature	:	No data available)
	Decom	position temperature	:	No data available)
	рН		:	10.5 - 11.5 (as aqueous solu	tion)
	Viscosi Visc	ty sosity, kinematic	:	No data available	9
	Solubili Wat	ty(ies) er solubility	:	soluble	
	Partitio octanol	n coefficient: n- /water	:	Not applicable	
	Vapour	pressure	:	No data available)
	Relative	e density	:	No data available	
	Density	,	:	1.07 - 1.08 g/cm ³	
	Relative	e vapour density	:	No data available	
		characteristics icle size	:	Not applicable	
9.2		formation		N	
	Explosi		:	Not explosive	· · · · · · · · · · · · · · · · · · ·
	Oxidizir	ng properties	:	The substance of	r mixture is not classified as oxidizing.



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Evap	oration rate	:	No data availa	ble
SECTIO	N 10: Stability and r	reacti	vity	
10.1 Read Not c	ctivity lassified as a reactivity	/ haza	rd.	
	nical stability e under normal conditi	ions.		
10.3 Poss	sibility of hazardous r	reactio	ons	
	rdous reactions	:		strong oxidizing agents.
10.4 Con	ditions to avoid			
Conc	litions to avoid	:	None known.	
10.5 Inco	mpatible materials			
Mate	rials to avoid	:	Oxidizing agen Acids	ts
10 6 Haza	urdous decomposition	n nroe		
	Irdous decompositio azardous decompositic	-	ducts	
No ha	azardous decompositio	on pro	lucts ducts are known.	
No ha	azardous decompositio	infor	ducts ducts are known mation	
No hi SECTIOI 11.1 Infor	azardous decomposition	infor	ducts ducts are known mation	egulation (EC) No 1272/2008
No ha SECTIOI 11.1 Infor	azardous decomposition N 11: Toxicological mation on hazard cla mation on likely routes	infor	ducts ducts are known mation as defined in Re Inhalation	
No hi SECTIOI 11.1 Infor	azardous decomposition N 11: Toxicological mation on hazard cla mation on likely routes	infor	ducts ducts are known mation as defined in Re Inhalation Skin contact	
No ha SECTIOI 11.1 Infor	azardous decomposition N 11: Toxicological mation on hazard cla mation on likely routes	infor	ducts ducts are known mation as defined in Re Inhalation	
No hi SECTIOI 11.1 Infor Inforr expo	Azardous decomposition N 11: Toxicological mation on hazard cla mation on likely routes sure	infor	ducts ducts are known mation as defined in Re Inhalation Skin contact Ingestion	
No his SECTIOI 11.1 Inforr Inforr expo Acut	azardous decomposition N 11: Toxicological mation on hazard cla mation on likely routes	infor isses	ducts ducts are known mation as defined in Re Inhalation Skin contact Ingestion Eye contact	
No hi SECTIOI 11.1 Infor Inforr expo Acut Not c	azardous decomposition N 11: Toxicological mation on hazard cla mation on likely routes sure e toxicity classified based on ava	infor isses	ducts ducts are known mation as defined in Re Inhalation Skin contact Ingestion Eye contact	
No hi SECTIOI 11.1 Infor Inforr expo Acut Not c <u>Prod</u>	azardous decomposition N 11: Toxicological mation on hazard cla mation on likely routes sure e toxicity classified based on ava	infor isses of :	ducts ducts are known. mation as defined in Re Inhalation Skin contact Ingestion Eye contact information.	egulation (EC) No 1272/2008

Components:

Enrofloxacin:		
Acute oral toxicity	:	LD50 (Rabbit): 500 - 800 mg/kg
		LD50 (Rat): > 5,000 mg/kg



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		LD50 (Mouse): >	5,000 mg/kg
dermal toxicity	:	LD50 (Rabbit): >2	2,000 mg/kg
/l alcohol:			
oral toxicity	•	LD50 (Rat): 1,620) mg/kg
inhalation toxicity	:	LC50 (Rat): > 4.1	
		Method: OECD Te	
m [2-[(2,6-dichlorophe	nyl)amino]phenyl]ac	etate:
oral toxicity	:	LD50 (Rat): 55 - 2	240 mg/kg
		LD50 (Mouse): 17	′0 - 389 mg/kg
toxicity (other routes of istration)	:	LD50 (Rat): 97 - 1 Application Route	
		LD50 (Mouse): 92 Application Route	
corrosion/irritation es severe burns.			
onents:			
loxacin:			
t	:	No skin irritation	
/l alcohol:			
es	:	Rabbit	1
d t	÷	No skin irritation	eline 404
	dermal toxicity rl alcohol: oral toxicity inhalation toxicity m [2-[(2,6-dichlorophe oral toxicity toxicity (other routes of istration) corrosion/irritation es severe burns. conents: loxacin: rl alcohol: es d	06.04.2024 12 dermal toxicity : rl alcohol: : oral toxicity : inhalation toxicity : m [2-[(2,6-dichlorophenyl oral toxicity : toxicity (other routes of : istration) corrosion/irritation es severe burns. onents: loxacin: : d	06.04.2024 1241628-00020 LD50 (Mouse): > 1 dermal toxicity : LD50 (Rabbit): > 1 oral toxicity : LD50 (Rat): 1,620 inhalation toxicity : LC50 (Rat): 1,620 inhalation toxicity : LC50 (Rat): 1,620 inhalation toxicity : LC50 (Rat): > 4.1 Exposure time: 4 Test atmosphere: Method: OECD To m [2-[(2,6-dichlorophenyl)amino]phenyl]ac Oral toxicity oral toxicity : LD50 (Rat): 55 - 2 LD50 (Mouse): 17 toxicity (other routes of istration) : toxicity (other routes of istration) : LD50 (Rat): 97 - 1 Application Route LD50 (Mouse): 92 Application Route istration) : No skin irritation es severe burns. : No skin irritation id : Rabbit



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Spec Meth Resu	od	 Rabbit OECD Test Guideline 405 Irritation to eyes, reversing within 21 days 			
Sodi Resu		henyl)amino]phenyl]acetate: : Mild eye irritation			
Resp	biratory or skin sens	tisation			
-	sensitisation	ailable information.			
-	iratory sensitisatio lassified based on av				
Com	ponents:				
Test	sure routes ies	 Maximisation Test Dermal Guinea pig Not a skin sensitizer. 			
Benz	yl alcohol:				
Test	Type sure routes ies od	 Maximisation Test Skin contact Guinea pig OECD Test Guideline 406 negative 			
	n cell mutagenicity lassified based on av	ailable information.			
<u>Com</u>	ponents:				
	floxacin:				
Geno	otoxicity in vitro	: Test Type: Chromosomal aberration Result: positive			
Genc	otoxicity in vivo	: Test Type: Micronucleus test Species: Mouse Result: negative			
		Test Type: Mammalian bone marrow sister chromatid ex- change Species: Hamster Result: negative			
		Test Type: Chromosomal aberration Species: Rat Result: negative			



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II					
Benz	yl alcohol:				
Geno	toxicity in vitro	: Test Type: Ba Result: negati	acterial reverse mutation assay (AMES) ive		
Genotoxicity in vivo		cytogenetic a Species: Mou Application R	 Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay) Species: Mouse Application Route: Intraperitoneal injection Result: negative 		
Sodiu	um [2-[(2,6-dichloro	phenyl)amino]pheny	I]acetate:		
	toxicity in vitro		acterial reverse mutation assay (AMES)		
		Test Type: Mo Result: negati	ouse Lymphoma ive		
Geno	toxicity in vivo	: Test Type: Cl Species: CHC Result: negat			
	i nogenicity lassified based on av	ailable information.			
Not cl <u>Com</u>	lassified based on av ponents:	ailable information.			
Not cl <u>Com</u> Enrot	lassified based on av ponents: floxacin:				
Not cl <u>Com</u> Enrof	lassified based on av ponents: floxacin: ies	: Rat			
Not cl <u>Com</u> Enrol Speci Applic	lassified based on av ponents: floxacin:				
Not cl <u>Com</u> Enrol Speci Applic	lassified based on av ponents: floxacin: ies cation Route sure time	: Rat : Oral			
Not cl Comj Enrof Speci Applic Expos Resul	lassified based on av ponents: floxacin: ies cation Route sure time lt	: Rat : Oral : 2 Years			
Not cl Com Enrof Speci Applic Expos Resul	lassified based on av ponents: floxacin: ies cation Route sure time It ies cation Route	: Rat : Oral : 2 Years : negative : Mouse : Oral			
Not cl Com Enrof Speci Applic Expos Resul	lassified based on av ponents: floxacin: ies cation Route sure time lt ies cation Route sure time	: Rat : Oral : 2 Years : negative : Mouse			
Not cl <u>Com</u> Enrof Speci Applic Expos Resul Speci Applic Expos Resul	lassified based on av ponents: floxacin: ies cation Route sure time It ies cation Route sure time sure time	: Rat : Oral : 2 Years : negative : Mouse : Oral : 2 Years			
Not cl <u>Comp</u> Enrof Speci Applic Expos Resul Speci Applic Expos Resul Benz	lassified based on av ponents: floxacin: ies cation Route sure time lt ies cation Route sure time lt yl alcohol:	 Rat Oral 2 Years negative Mouse Oral 2 Years negative 			
Not cl <u>Comp</u> Enrof Speci Applic Expos Resul Speci Applic Expos Resul Benz	lassified based on av ponents: floxacin: ies cation Route sure time lt ies cation Route sure time lt yl alcohol: ies	 Rat Oral 2 Years negative Mouse Oral 2 Years negative 			
Not cl <u>Comp</u> Enrof Speci Applic Expos Resul Speci Applic Expos Resul Benz	lassified based on av ponents: floxacin: ies cation Route sure time lt ies cation Route sure time lt yl alcohol:	 Rat Oral 2 Years negative Mouse Oral 2 Years negative Mouse Mouse Ingestion 103 weeks 			
Not cl <u>Comp</u> Enrof Speci Applic Expos Resul Speci Applic Expos Resul Benz	lassified based on av ponents: floxacin: ies cation Route sure time lt yl alcohol: ies cation Route sure time lt ju alcohol: ies cation Route sure time od	 Rat Oral 2 Years negative Mouse Oral 2 Years negative Mouse Mouse Ingestion 	Guideline 451		
Not cl <u>Comj</u> Enrof Speci Applic Expos Resul Benz Speci Applic Expos Resul Benz Metho Resul	lassified based on av ponents: floxacin: ies cation Route sure time lt yl alcohol: ies cation Route sure time lt yl alcohol: ies cation Route sure time bd lt	 Rat Oral 2 Years negative Mouse Oral 2 Years negative Mouse Ingestion 103 weeks OECD Test G negative 			
Not cl <u>Com</u> Enrof Speci Applic Expos Resul Speci Applic Expos Resul Benz Speci Applic Expos Resul Speci Applic Expos Resul Speci Applic Expos Resul Speci Applic Expos Resul Speci Applic Expos Resul Speci Applic Expos Resul Speci Applic Expos Resul Speci Applic Expos Resul Speci Applic Expos Resul Speci Applic Expos Resul Speci Applic Expos Resul Speci Applic Expos Resul Speci Applic Expos Resul Speci Applic Expos Resul Speci Applic Expos Metho Resul Speci Applic Expos Metho Resul Speci Applic Expos Metho Resul Speci Applic Expos Metho Resul Speci Applic Expos	lassified based on av ponents: floxacin: ies cation Route sure time It yl alcohol: ies cation Route sure time bd t um [2-[(2,6-dichloro) ies	 Rat Oral 2 Years negative Mouse Oral 2 Years negative Mouse Ingestion 103 weeks OECD Test G 			
Not cl <u>Comp</u> Enrof Speci Applic Expos Resul Speci Applic Expos Resul Benz Speci Applic Expos Resul Speci Applic Expos Resul Speci Applic Expos Resul Speci Applic Expos Resul Speci Applic Expos Resul Speci Applic Expos Resul Speci Applic Expos Resul Speci Applic Expos Resul Speci Applic Expos Resul Speci Applic Expos Resul Speci Applic Expos Resul Speci Applic Expos Resul Speci Applic Expos Resul Speci Applic Expos Resul Speci Applic Expos Methol Resul Speci Applic Expos Methol Resul Speci Applic Expos Methol Speci Applic Expos	lassified based on av ponents: floxacin: ies cation Route sure time It yl alcohol: ies cation Route sure time but um [2-[(2,6-dichloro	 Rat Oral 2 Years negative Mouse Oral 2 Years negative Mouse Ingestion 103 weeks OECD Test G negative phenyl)amino]pheny			

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Appli Expo	Species : Application Route : Exposure time : Result :		Mouse Oral 2 Years negative	
•	oductive toxicity ected of damaging fertil	it.		
	ponents:	nty.		
Enro	floxacin:			
Effec	ts on fertility	:	Species: Rat Application Rou Fertility: LOAEL	generation study te: Oral : 15 mg/kg body weight on fertility, alteration in sperm morphology
Effec ment	ts on foetal develop-	:	Result: Reduced	
Repro sessr	oductive toxicity - As- nent	:		of adverse effects on sexual function and nanimal experiments.
Benz	yl alcohol:			
	ts on fertility	:	Species: Rat Application Rou Result: negative	
Effec ment	ts on foetal develop-	:	Test Type: Emb Species: Mouse Application Rou Result: negative	te: Ingestion
Sodi	um [2-[(2,6-dichloroph	enyl)amino]phenyl]a	icetate:
Effec	ts on fertility	:	Test Type: Ferti Species: Rat, m	ale and female

Application Route: Oral

Fertility: NOAEL: 4 mg/kg body weight



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		R	Result: No effects	on fertility
Effec ment	ts on foetal develop-	S A D R T S A D	Result: Embryo-fo Fest Type: Develo Species: Rabbit Application Route: Developmental To	Oral xicity: LOAEL: 1 mg/kg body weight etal toxicity, No teratogenic effects pment
Repro sessr	oductive toxicity - As- ment	: S	Suspected of dam	aging the unborn child.
	F - single exposure lassified based on availa	able inf	formation.	
	F - repeated exposure es damage to organs th	rough	prolonged or repe	eated exposure.
Com	ponents:			
Targe	floxacin: et Organs ssment	: C	artilage, Testis Causes damage to exposure.	o organs through prolonged or repeated
Sodi	um [2-[(2,6-dichloroph	envl)a	minolphenvllace	etate:
Targe	et Organs ssment	: C	Bastrointestinal tra	act, Blood, lymphatic system, Liver, Prostate o organs through prolonged or repeated
Repe	ated dose toxicity			
Com	ponents:			
Spec NOAI LOAE Appli Expo	EL	: 3 : 1 : C : 1	Rat 6 mg/kg 50 mg/kg Dral 3 Weeks Testis	
Expo	EL	: 3 : 9 : C : 1	Dog 9 mg/kg 9.6 mg/kg Dral 3 Weeks artilage	



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Species NOAEL Application Route Exposure time Remarks		: Cat : 25 mg/kg : Oral : 30 Days : No significant ad	verse effects were reported
Benzyl alcohol: Species NOAEL Application Route Exposure time Method		: Rat : 1.072 mg/l : inhalation (dust/r : 28 Days : OECD Test Guid	
Sodium [2-[(2,6-dichlorophe Species LOAEL Application Route Exposure time Target Organs		: Rat : 0.25 mg/kg : Oral : 98 w	cetate: tract, Blood, lymphatic system, Liver, Prostate
Species LOAEL Application Route Exposure time Target Organs		: Dog : 1 mg/kg : Oral : 12 w : Blood	
Species NOAEL LOAEL Application Route Exposure time Target Organs Symptoms		: Baboon : 0.5 mg/kg : 5 mg/kg : Oral : 52 w : Gastrointestinal f : constipation, Dia	
Aspiration toxicity Not classified based on available information. 11.2 Information on other hazards			
	crine disrupting prop		
Produ	uct:	_	

Assessment

: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.



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Expe	rience with human e	xposure	
Com	oonents:		
Enro	floxacin:		
Inges	tion	: Symptoms: Gas tem effects, Ser	strointestinal disturbance, central nervous sys- nsitivity to light
Sodiu	um [2-[(2,6-dichlorop	henyl)amino]phenyl]a	acetate:
Inges	tion		lominal pain, Diarrhoea, constipation, heart- n, Dizziness, Headache, Breathing difficulties,

SECTION 12: Ecological information

12.1 Toxicity

Com	ponents:

oxacin:

Enrofloxacin:		
Toxicity to fish	:	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
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Hyalella azteca (Amphipod)): > 206 mg/l Exposure time: 96 h
		EC50 (Daphnia magna (Water flea)): 79.9 mg/l Exposure time: 48 h
Toxicity to algae/aquatic plants	:	EC50 (Pseudokirchneriella subcapitata (green algae)): 3.1 mg/l Exposure time: 72 h
		EC50 (Microcystis aeruginosa (blue-green algae)): 0.049 mg/l Exposure time: 5 d
M-Factor (Acute aquatic tox- icity)	:	10
Toxicity to daphnia and other aquatic invertebrates (Chron- ic toxicity)	:	NOEC: 9.8 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea)
		NOEC: 5 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea)



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			LOEC: 15 mg/l Exposure time: 21 Species: Daphnia	l d magna (Water flea)
M-Fa toxic	actor (Chronic aquatic ity)	:	10	
Benz	zyl alcohol:			
Τοχία	city to fish	:	LC50 (Pimephales Exposure time: 96	s promelas (fathead minnow)): 460 mg/l S h
	city to daphnia and other atic invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: OECD Te	
Toxic plant	city to algae/aquatic ts	:	EC50 (Pseudokiro mg/l Exposure time: 72 Method: OECD To	
			NOEC (Pseudokir mg/l Exposure time: 72 Method: OECD Te	
aqua	city to daphnia and other atic invertebrates (Chron- kicity)	:	NOEC: 51 mg/l Exposure time: 21 Species: Daphnia Method: OECD To	magna (Water flea)
Sodi	ium [2-[(2,6-dichlorophe	envl)aminolphenvllac	etate:
	city to fish	:		s promelas (fathead minnow)): 166.6 mg/l 5 h
	city to daphnia and other atic invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: OECD Te	
Toxic plant	city to algae/aquatic ts	:	EC50 (Pseudokiro mg/l Exposure time: 72 Method: OECD Te	
			NOEC (Pseudokir mg/l Exposure time: 72 Method: OECD Te	
Toxic icity)	city to fish (Chronic tox-	:	NOEC: 0.32 mg/l Exposure time: 32 Species: Pimepha Method: OECD To	ales promelas (fathead minnow)



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Toxicity to daphnia and other aquatic invertebrates (Chron- ic toxicity)			Exposure time: 2	a magna (Water flea)
12.2 Persi	stence and degradabil	lity		
Com	oonents:			
	yl alcohol: gradability	:	Result: Readily bi Biodegradation: 5 Exposure time: 14	92 - 96 %
12.3 Bioad	ccumulative potential			
Com	oonents:			
Partiti	f loxacin: on coefficient: n- ol/water	:	log Pow: 0.5	
Partiti	yl alcohol: on coefficient: n- ol/water	:	log Pow: 1.05	
Partiti	Im [2-[(2,6-dichlorophe on coefficient: n- ol/water	-		etate:
12.4 Mobi	lity in soil			
<u>Com</u>	oonents:			
Distrit	iloxacin: pution among environ- al compartments	:	Koc: 5.55	
12.5 Results of PBT and vPvB assessment				
<u>Produ</u> Asses	uct: ssment	:	to be either persis	nixture contains no components considered stent, bioaccumulative and toxic (PBT), or nd very bioaccumulative (vPvB) at levels of
12.6 Endo	crine disrupting prope	ertie	S	
Produ	uct:			

Assessment	: The substance/mixture does not contain components consid-
	ered to have endocrine disrupting properties according to
	REACH Article 57(f) or Commission Delegated regulation



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		(EU) 2017/2100 levels of 0.1% c) or Commission Regulation (EU) 2018/605 at or higher.

12.7 Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product	:	Dispose of in accordance with local regulations. According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities. Do not dispose of waste into sewer.
Contaminated packaging	:	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.

SECTION 14: Transport information

14.1 UN number or ID number

ADN	:	UN 3082
ADR	:	UN 3082
RID	:	UN 3082
IMDG	:	UN 3082
ΙΑΤΑ	:	UN 3082
14.2 UN proper shipping name		
ADN	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Enrofloxacin)
ADR	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Enrofloxacin)
RID	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Enrofloxacin)
IMDG	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Enrofloxacin)
ΙΑΤΑ	:	Environmentally hazardous substance, liquid, n.o.s. (Enrofloxacin)
14.3 Transport hazard class(es)		

14.3 Transport hazard class(es)

Subsidiary risks

Class

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according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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ADN		:	9	
ADR		:	9	
RID		:	9	
IMDG		:	9	
ΙΑΤΑ		:	9	
14.4 Packi	ng group			
Classi	ng group fication Code d Identification Number	:	III M6 90 9	
ADR Packir Classi Hazar Labels	ng group fication Code d Identification Number	:	III M6 90 9 (-)	
Classi Hazar Labels		:	III M6 90 9	
IMDG Packir Labels EmS (ng group S	:	III 9 F-A, S-F	
Packir aircraf Packir	ng instruction (LQ) ng group	:	964 Y964 III Miscellaneous	
IATA Packir ger air Packir Packir	(Passenger) ng instruction (passen- rcraft) ng instruction (LQ) ng group	:	964 Y964 III	
		:	Miscellaneous	
	onmental hazards			
ADN Enviro	nmentally hazardous	:	yes	
ADR	onmentally hazardous	:	yes	



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Environmentally hazardous		: yes	
IMDG Marine pollutant		: yes	
	ATA (Passenger) Invironmentally hazardous	: yes	
	ATA (Cargo) Invironmentally hazardous	: yes	

14.6 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.

14.7 Maritime transport in bulk according to IMO instruments

Remarks

: Not applicable for product as supplied.

SECTION 15: Regulatory information

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

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII)	:	Conditions of restriction for the fol- lowing entries should be considered: Number on list 75, 3
		Substance(s) or mixture(s) are listed here according to their appearance in the regulation, irrespective of their use/purpose or the conditions of the restriction. Please refer to the condi- tions in corresponding Regulation to determine whether an entry is appli- cable to the placing on the market or not.
		If you intend to use this product as tattoo ink, please contact your ven- dor.
REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).	:	Not applicable
Regulation (EC) No 1005/2009 on substances that de- plete the ozone layer	:	Not applicable
Regulation (EU) 2019/1021 on persistent organic pollu- tants (recast)	:	Not applicable
Regulation (ÉU) No 649/2012 of the European Parlia- ment and the Council concerning the export and import of dangerous chemicals	:	Not applicable
REACH - List of substances subject to authorisation (Annex XIV)	:	Not applicable



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	o III: Directive 2012/18 accident hazards invol		Parliament and of the Coun	cil on the control of
E1		ENVIRONMENT HAZARDS	Quantity 1 AL 100 t	Quantity 2 200 t
Other	regulations:			
where Take i	applicable.	EC on the protection c	ity protection or stricter na f young people at work or	

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

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

15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information					
Other information	: Items where changes have been made to the previous are highlighted in the body of this document by two lines.				
Full text of H-State	nts				
H301	: Toxic if swallowed.				
H302	: Harmful if swallowed.				
H315	: Causes skin irritation.				
H319	: Causes serious eye irritation.				
H332	: Harmful if inhaled.				
H361d	: Suspected of damaging the unborn child.				
H361f	: Suspected of damaging fertility.				
H372	 Causes damage to organs through prolonged or re exposure. 	peated			
H400	: Very toxic to aquatic life.				
H410	: Very toxic to aquatic life with long lasting effects.				
H411	: Toxic to aquatic life with long lasting effects.				
Full text of other a	eviations				
Acute Tox.	: Acute toxicity				
Aquatic Acute	: Short-term (acute) aquatic hazard				
Aquatic Chronic	: Long-term (chronic) aquatic hazard				
Eye Irrit.	: Eye irritation				
Repr.	: Reproductive toxicity				
Skin Irrit.	: Skin irritation				
STOT RE	: Specific target organ toxicity - repeated exposure				
IE OEL	: Ireland. List of Chemical Agents and Carcinogens v	vith Occu-			



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pational Exposure Limit Values - Code of Practice, Schedule 1 and 2

IE OEL / OELV - 8 hrs (TWA) : Occupational exposure limit value (8-hour reference period)

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA -European Chemicals Agency; EC-Number - European Community number; 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; 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; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; 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; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECI -Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information

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

Classification of the mixture:				
Skin Corr. 1	H314			
Eye Dam. 1	H318			
Repr. 2	H361f			
STOT RE 1	H372			
Aquatic Acute 1	H400			
Aquatic Chronic 1	H410			

Classification procedure:

Based on product data or assessment				
Based on product data or assessment				
Calculation method				



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

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IE / EN