

Version	Revision Date:	SDS Number:	Date of last issue: 30.09.2023
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### 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 th	e s	substance 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 the	saf	ety data sheet
	Company	:	MSD Walton Manor, Walton MK7 7AJ Milton Keynes - United Kingdom
	Telephone	:	+1-908-740-4000
	E-mail address of person responsible for the SDS	:	EHSDATASTEWARD@msd.com

### **1.4 Emergency telephone number**

+1-908-423-6000

### **SECTION 2: Hazards identification**

### 2.1 Classification of the substance or mixture

# Classification (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)

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.

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#### 2.2 Label elements

# Labelling (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)

Hazard pictograms	:		
Signal word	:	Danger	
Hazard statements	:	H314 H361f H372	Causes severe skin burns and eye damage. Suspected of damaging fertility. Causes damage to organs through prolonged or repeated exposure.
		H410	Very toxic to aquatic life with long lasting effects.
Precautionary statements	:	Prevention	:
		P201 P273 P280	Obtain special instructions before use. Avoid release to the environment. Wear protective gloves/ protective clothing/ eye protection/ face protection.
		Response:	
		P303 + P36	51 + P353 + P310 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Immediately call a POISON CENTER/ doctor.
		P305 + P35	51 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rins- ing. Immediately call a POISON CENTER/ doctor.
		P391	Collect 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.

### **SECTION 3: Composition/information on ingredients**

#### 3.2 Mixtures

#### Components

Chemical name CAS-No. Classification Concent EC-No. Index-No. Registration number	
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	loxacin /l alcohol	93106-60-6	Acute Tox. 4; H302 Repr. 2; H361f STOT RE 1; H372 (cartilage, Testis) Aquatic Acute 1; H400 Aquatic Chronic 1; H410>= $10 - < 20$ M-Factor (Acute 1; H400 Aquatic Chronic 1; H410
		202-859-9 603-057-00-	Acute Tox. 4; H332
	m [2-[(2,6- rophenyl)amino]phenyl]ad	15307-79-6 239-346-4	Acute Tox. 3; H301 >= 1 - < 2.5 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Repr. 2; H361d STOT RE 1; H372 (Gastrointestinal tract, Blood, lym- phatic system, Liv- er, Prostate) Aquatic Chronic 2; H411
	ances with a workplace ex		
Propy	lene glycol	57-55-6 200-338-0	>= 30 - < 50

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).
If inhaled	:	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 plenty of water



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		and sho Get mee Wash c	st 15 minutes while removing co s. cal attention immediately. thing before reuse. Ily clean shoes before reuse.	ntaminated clothing
In ca	se of eye contact	for at le If easy t	f contact, immediately flush eyes at 15 minutes. do, remove contact lens, if worr cal attention immediately.	
If swa	allowed	If vomiti Call a p Rinse m	ved, DO NOT induce vomiting. g occurs have person lean forwa vsician or poison control centre i outh thoroughly with water. re anything by mouth to an unco	immediately.
4.2 Most	important symptoms a	nd effects, b	th acute and delayed	
Risks	3	Suspec Causes exposu	erious eye damage. d of damaging fertility. amage to organs through prolor evere burns.	nged or repeated
		Causes	igestive tract burns.	
4 3 Indica	ation of any immediate	medical atte	tion and special treatment ne	eded
	tment		nptomatically and supportively.	
SECTIO	N 5: Firefighting mea	sures		
5 1 Extin	guishing media			
	ble extinguishing media		esistant foam ioxide (CO2)	
Unsu medi	iitable extinguishing a	: None kr	wn.	
5 2 Speci	al hazards arising from	the substa	e or mixture	
-	ific hazards during fire-		to combustion products may be	e a hazard to health.
Haza ucts	rdous combustion prod-	Chlorine	compounds oxides (NOx)	



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5.3 Advice	for firefighters			
•	al protective equipment fighters	:		e, wear self-contained breathing apparatus. tective equipment.
Specif ods	Specific extinguishing meth- ods		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

Frevent spreading over a wide area (e.g. by containment of on
barriers).
Retain and dispose of contaminated wash water.
If spillage enters rivers or watercourses, inform the Environ-
ment Agency (emergency telephone number 0800 807060).

#### 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.

### **SECTION 7: Handling and storage**

#### 7.1 Precautions for safe handling

Technical measures

See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.



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L	.ocal/T	otal ventilation	:	If sufficient ventila ventila	ation is unavailable, use with local exhaust
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.		
Н	łygien	e measures	:	If exposure to che flushing systems place. When usin nated clothing be The effective ope engineering contr appropriate dego	eration of a facility should include review of rols, proper personal protective equipment, wning and decontamination procedures, e monitoring, medical surveillance and the
7.2 Co	onditi	ons for safe storage,	inc	luding any incom	patibilities
	•	ements for storage and containers	:		labelled containers. Store locked up. Keep ore in accordance with the particular national
A	Advice	on common storage	:	Strong oxidizing	stances and mixtures
-		<b>c end use(s)</b> c use(s)	:	No data available	9

### **SECTION 8: Exposure controls/personal protection**

### 8.1 Control parameters

### Occupational Exposure Limits

	Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
	Propylene glycol	57-55-6	TWA (Total va- pour and parti- cles)	150 ppm 474 mg/m3	GB EH40
ſ			TWA (particles)	10 mg/m3	GB EH40
	Enrofloxacin	93106-60-6	TWA	0.2 mg/m3 (OEB 2)	Internal

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phe-	m [2-[(2,6- oro- nino]phenyl]a ∋	15307-79-6	TWA	100 µg/m3 (OEB 2)	Internal
		Further inform	nation: Skin		

### Derived No Effect Level (DNEL):

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

### Predicted No Effect Concentration (PNEC):

Substance name	Environmental Compartment	Value
Benzyl alcohol	Fresh water	1 mg/l
	Marine water	0.1 mg/l
	Intermittent use/release	2.3 mg/l
	Sewage treatment plant	39 mg/l
	Fresh water sediment	5.27 mg/kg
	Marine sediment	0.527 mg/kg
	Soil	0.456 mg/kg
Propylene glycol	Fresh water	260 mg/l
	Freshwater - intermittent	183 mg/l
	Marine water	26 mg/l

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11		Sewage treatr	ment plant	20000 mg/l
		Fresh water s	ediment	572 mg/kg dry weight (d.w.)
		Marine sedime	ent	57.2 mg/kg dry weight (d.w.)
		Soil		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
		Ŭ
Skin and body protection	:	Work uniform or laboratory coat.
Respiratory protection	:	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 BS 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

Appearance Colour Odour Odour Threshold	:	liquid light yellow No data available No data available
рН	:	10.5 - 11.5 (as aqueous solution)
Melting point/freezing point	:	No data available
Initial boiling point and boiling	:	No data available
range Flash point	:	No data available
Evaporation rate	:	No data available



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	Flamm	ability (solid, gas)	:	Not applicable	
		explosion limit / Upper ability limit	:	No data available	9
		explosion limit / Lower ability limit	:	No data available	9
	Vapou	r pressure	:	No data available	9
	Relativ	e vapour density	:	No data available	9
	Relativ	e density	:	No data available	9
	Density	4	:	1.07 - 1.08 g/cm <sup>3</sup>	3
	Partitio octano	ter solubility n coefficient: n-	:	soluble Not applicable No data available	9
	Decom	position temperature	:	No data available	9
	Viscos Viso	ity cosity, kinematic	:	No data available	2
	Explos	ive properties	:	Not explosive	
	Oxidizi	ng properties	:	The substance o	r mixture is not classified as oxidizing.
9.2 (		nformation ability (liquids)	:	No data available	9
	Particle	e size	:	Not applicable	

### **SECTION 10: Stability and reactivity**

10.1	<b>Reactivity</b> Not classified as a reactivity hazard	d.
10.2	Chemical stability Stable under normal conditions.	
10.3	Possibility of hazardous reaction Hazardous reactions	<b>ns</b> Can react with strong oxidizing agents.
10.4	Conditions to avoid Conditions to avoid :	None known.



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agents

### 10.5 Incompatible materials

Materials to avoid	:	Oxidizing
		Acids

# 10.6 Hazardous decomposition products

No hazardous decomposition products are known.

### **SECTION 11: Toxicological information**

#### 11.1 Information on toxicological effects

Information on likely routes of	:	Inhalation
exposure		Skin contact
		Ingestion
		Eye contact

#### Acute toxicity

Not classified based on available information.

### Product:

Product:		
Acute oral toxicity	:	Acute toxicity estimate: > 2,000 mg/kg Method: Calculation method
Acute inhalation toxicity	:	Acute toxicity estimate: > 5 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: Calculation method
Components:		
Enrofloxacin:		
Acute oral toxicity	:	LD50 (Rabbit): 500 - 800 mg/kg
		LD50 (Rat): > 5,000 mg/kg
		LD50 (Mouse): > 5,000 mg/kg
Acute dermal toxicity	:	LD50 (Rabbit): > 2,000 mg/kg
Benzyl alcohol:		
Acute oral toxicity	:	LD50 (Rat): 1,620 mg/kg
Acute inhalation toxicity	:	LC50 (Rat): > 4.178 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403

### Sodium [2-[(2,6-dichlorophenyl)amino]phenyl]acetate:

Acute oral toxicity	: LD50 (Rat): 55 - 240 mg/kg
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П				
			LD50 (Mouse): 17	70 - 389 mg/kg
	toxicity (other routes of nistration)	:	LD50 (Rat): 97 - Application Route	
			LD50 (Mouse): 92 Application Route	
Prop	ylene glycol:			
Acute	oral toxicity	:	LD50 (Rat): 22,00	00 mg/kg
Acute	inhalation toxicity	:	LC50 (Rat): > 44. Exposure time: 4 Test atmosphere:	h
Acute	e dermal toxicity	:		2,000 mg/kg substance or mixture has no acute dermal
	es severe burns.			
Causo <u>Comp</u> Enrot	oonents: floxacin:		No skin irritation	
Cause <u>Com</u>	oonents: floxacin:	:	No skin irritation	
Cause <u>Comp</u> Enrof IResul	<u>oonents:</u> floxacin: lt yl alcohol:	:		
Cause <u>Comp</u> Enrof IResul Benz	oonents: floxacin: t yl alcohol: es	:	Rabbit	alina 404
Cause <u>Comp</u> Enrof IResul	oonents: floxacin: t yl alcohol: es od	:		eline 404
Cause <u>Com</u> Enrof Resul Benz Speci Metho Resul	<b>ponents:</b> floxacin: It <b>yl alcohol:</b> es od It	: : : :	Rabbit OECD Test Guide No skin irritation	
Cause <u>Com</u> Enrof Resul Benz Speci Metho Resul	oonents: floxacin: it yl alcohol: es od it um [2-[(2,6-dichlorophe	: : : : :	Rabbit OECD Test Guide No skin irritation	
Cause <u>Com</u> Enrof Resul Benz Speci Metho Resul Sodiu	oonents: floxacin: it yl alcohol: es od it um [2-[(2,6-dichlorophe	•	Rabbit OECD Test Guide No skin irritation )amino]phenyl]ac	
Cause <u>Com</u> Enrof Resul Benz Speci Metho Resul Sodiu	oonents: floxacin: it yl alcohol: es od it um [2-[(2,6-dichlorophe it ylene glycol:	•	Rabbit OECD Test Guide No skin irritation )amino]phenyl]ac	

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Benz Speci Metho Resul	bd	: Rabbit : OECD Test Gu : Irritation to eye	ideline 405 s, reversing within 21 days
Sodiu Resul		henyl)amino]phenyl] : Mild eye irritatio	
Propy Speci Metho Resul	bd	: Rabbit : OECD Test Gu : No eye irritation	
Skin s Not cl Resp	iratory or skin sensitisensitises sensitisation assified based on avaitiratory sensitisation	ilable information.	
	assified based on ava ponents:	iliable information.	
Test	sure routes es	: Maximisation T : Dermal : Guinea pig : Not a skin sens	
Test	sure routes es od	: Maximisation T : Skin contact : Guinea pig : OECD Test Gu : negative	
Propy	/lene glycol:		

Test Type	:	Maximisation Test
Exposure routes	:	Skin contact
Species	:	Guinea pig
Result	:	negative

### Germ cell mutagenicity

Not classified based on available information.

### Components:

### Enrofloxacin:

Genotoxicity in vitro

: Test Type: Chromosomal aberration Result: positive



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Geno	toxicity in vivo	: Test Type Species: I Result: ne	
		Test Type change Species: I Result: ne	
		Test Type Species: I Result: ne	
II Benz	yl alcohol:		
	toxicity in vitro	: Test Type Result: ne	: Bacterial reverse mutation assay (AMES) egative
Geno	toxicity in vivo	cytogenet Species: I	Mouse n Route: Intraperitoneal injection
II Sodiu	um [2-[(2,6-dichloro	ohenyl)amino]ph	enyl]acetate:
	toxicity in vitro		: Bacterial reverse mutation assay (AMES)
		Test Type Result: ne	: Mouse Lymphoma gative
Geno	toxicity in vivo	: Test Type Species: ( Result: ne	
	ylene glycol:		
	toxicity in vitro	: Test Type Result: ne	: Bacterial reverse mutation assay (AMES) gative
			: Chromosome aberration test in vitro DECD Test Guideline 473 egative
Geno	toxicity in vivo	cytogenet Species: I	Mouse n Route: Intraperitoneal injection

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### Carcinogenicity

Not classified based on available information.

### Components:

### Enrofloxacin:

Species Application Route Exposure time Result	: Rat : Oral : 2 Years : negative
Species Application Route Exposure time Result	: Mouse : Oral : 2 Years : negative
Benzyl alcohol:	
Species	: Mouse
Application Route	: Ingestion
Exposure time	: 103 weeks
Method	: OECD Test Guideline 451
Result	: negative

### Sodium [2-[(2,6-dichlorophenyl)amino]phenyl]acetate:

Species	: Rat
Application Route	: Oral
Exposure time	: 2 Years
Application Route Exposure time Result	: negative
Species	: Mouse
Species Application Route	: Oral
Exposure time	: 2 Years
Result	: negative

#### Propylene glycol:

Species	:	Rat
Application Route	:	Ingestion
Exposure time	:	2 Years
Species Application Route Exposure time Result	:	negative

### Reproductive toxicity

Suspected of damaging fertility.

### **Components:**

#### Enrofloxacin:

Effects on fertility	: Test Type: Two-generation study
	Species: Rat
	Application Route: Oral
	Fertility: LOAEL: 15 mg/kg body weight
	Result: Effects on fertility, alteration in sperm morphology

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Effects ment	on foetal develop-	:	Result: Reduced f Remarks: Materna Test Type: Develo Species: Rabbit Application Route Developmental To	: Oral oxicity: LOAEL: 210 mg/kg body weight ioetal weight, No teratogenic effects al toxicity observed. opment : Oral oxicity: NOAEL: 25 mg/kg body weight
Reproc sessme	ductive toxicity - As- ent	:	Some evidence of	icity, No teratogenic effects f adverse effects on sexual function and animal experiments.
II Benzv	l alcohol:			
	on fertility	:	Species: Rat Application Route Result: negative	y/early embryonic development : Ingestion on data from similar materials
Effects ment	on foetal develop-	:	Test Type: Embry Species: Mouse Application Route Result: negative	o-foetal development : Ingestion
II Sodiur	m [2-[(2,6-dichloroph	envl	)aminolphenyllac	etate:
	on fertility	:	Test Type: Fertility Species: Rat, mal Application Route	y e and female : Oral 4 mg/kg body weight
Effects ment	on foetal develop-	:		
Reproc	ductive toxicity - As- ent	:	Suspected of dam	naging the unborn child.
	lene glycol:			

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Effect	s on fertility	:	Test Type: Two- Species: Mouse Application Rou Result: negative	te: Ingestion
Effect ment	s on foetal develop-	:	Test Type: Emb Species: Mouse Application Rou Result: negative	te: Ingestion
	- single exposure lassified based on ava	ailable	information.	
STOT	- repeated exposure	е		
Caus	es damage to organs	throug	h prolonged or re	peated exposure.
Com	oonents:			
Enro	floxacin:			
-	et Organs	:	cartilage, Testis	
Asses	ssment	:	Causes damage exposure.	to organs through prolonged or repeated
Sodiu	um [2-[(2,6-dichlorop	henyl	)amino]phenyl]a	cetate:
Targe	et Organs		Castrointestinal	the stability of the state of the Design of the
-	ssment	:		tract, Blood, lymphatic system, Liver, Prostate to organs through prolonged or repeated
Asses	-	:	Causes damage	
Asses Repe	ssment	:	Causes damage	
Asses Repe <u>Com</u> Enro	ated dose toxicity ponents: floxacin:	:	Causes damage	
Asses Repe <u>Com</u> Enrot	ated dose toxicity ponents: floxacin: es	:	Causes damage exposure.	
Asses Repe <u>Com</u> Enrot Speci NOA	ated dose toxicity ponents: floxacin: es EL	:	Causes damage exposure. Rat 36 mg/kg	
Asses Repe <u>Com</u> Enro Speci NOAE LOAE Applie	ated dose toxicity ponents: floxacin: es EL EL cation Route		Causes damage exposure. Rat 36 mg/kg 150 mg/kg Oral	
Asses Repe Com Enrot Speci NOAE LOAE Applic Expos	ated dose toxicity ponents: floxacin: es EL EL cation Route sure time		Causes damage exposure. Rat 36 mg/kg 150 mg/kg Oral 13 Weeks	
Asses Repe Com Enrot Speci NOAE LOAE Applic Expos	ated dose toxicity ponents: floxacin: es EL EL cation Route		Causes damage exposure. Rat 36 mg/kg 150 mg/kg Oral	
Asses Repe Com Enrot Speci NOAE LOAE Applic Expos Targe	ated dose toxicity ponents: floxacin: es EL EL cation Route sure time et Organs es		Causes damage exposure. Rat 36 mg/kg 150 mg/kg Oral 13 Weeks Testis Dog	
Asses Repe Com Enrot Speci NOAE LOAE Applie Expos Targe	ated dose toxicity ponents: floxacin: es EL EL cation Route sure time et Organs es EL		Causes damage exposure. Rat 36 mg/kg 150 mg/kg Oral 13 Weeks Testis Dog 3 mg/kg	
Asses Repe Com Enrot Speci NOAE LOAE Applid Expos Targe	ated dose toxicity ponents: floxacin: es EL EL cation Route sure time et Organs es EL EL cation Route		Causes damage exposure. Rat 36 mg/kg 150 mg/kg Oral 13 Weeks Testis Dog 3 mg/kg 9.6 mg/kg Oral	
Asses Repe Com Enrot Speci NOAE LOAE Applid Expos Targe	ated dose toxicity ponents: floxacin: es EL EL cation Route sure time et Organs es EL EL cation Route sure time et organs		Causes damage exposure. Rat 36 mg/kg 150 mg/kg Oral 13 Weeks Testis Dog 3 mg/kg 9.6 mg/kg Oral 13 Weeks	
Asses Repe Com Enrot Speci NOAE LOAE Applid Expos Targe	ated dose toxicity ponents: floxacin: es EL EL cation Route sure time et Organs es EL EL cation Route		Causes damage exposure. Rat 36 mg/kg 150 mg/kg Oral 13 Weeks Testis Dog 3 mg/kg 9.6 mg/kg Oral	
Asses Repe Com Enrot Speci NOAE LOAE Applic Expos Targe Speci NOAE LOAE Applic Expos Targe	ated dose toxicity ponents: floxacin: es EL EL cation Route sure time et Organs es EL EL cation Route sure time et Organs es EL EL cation Route sure time es EL EL cation Route sure time es EL cation Route sure time es EL		Causes damage exposure. Rat 36 mg/kg 150 mg/kg Oral 13 Weeks Testis Dog 3 mg/kg 9.6 mg/kg Oral 13 Weeks cartilage Cat	
Asses Repe Com Enrot Speci NOAE LOAE Applid Expos Targe Speci NOAE Applid Expos Targe	ated dose toxicity ponents: floxacin: es EL EL cation Route sure time et Organs es EL EL cation Route sure time et Organs es EL EL cation Route sure time et Organs es EL		Causes damage exposure. Rat 36 mg/kg 150 mg/kg Oral 13 Weeks Testis Dog 3 mg/kg 9.6 mg/kg Oral 13 Weeks cartilage Cat 25 mg/kg	
Asses Repe Com Enrot Speci NOAE LOAE Applid Expos Targe Speci NOAE Applid Expos Targe	ated dose toxicity ponents: floxacin: es EL EL cation Route sure time et Organs es EL EL cation Route sure time et Organs es EL EL cation Route sure time es EL EL cation Route sure time es EL cation Route sure time es EL		Causes damage exposure. Rat 36 mg/kg 150 mg/kg Oral 13 Weeks Testis Dog 3 mg/kg 9.6 mg/kg Oral 13 Weeks cartilage Cat	

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ersion 0	Revision Date: 06.04.2024	SDS Number: 9374447-00007	Date of last issue: 30.09.2023 Date of first issue: 27.08.2021
	yl alcohol:		
Speci		: Rat	
NOAE	=∟ cation Route	: 1.072 mg/l	ust/mist/fume)
	sure time	: 28 Days	userniserume)
Metho			Guideline 412
Sodiu	um [2-[(2,6-dichloroj	henyl)amino]phen	yl]acetate:
Speci		: Rat	
LOAE		: 0.25 mg/kg	
	cation Route	: Oral	
	sure time	: 98 w	included Direct Longhotte and a Line Develop
large	et Organs	: Gastrointest	inal tract, Blood, lymphatic system, Liver, Prostate
Speci		: Dog	
LOAE		: 1 mg/kg	
	cation Route	: Oral	
	sure time et Organs	: 12 w : Blood	
	C C	. 51000	
Speci		: Baboon	
NOAE		: 0.5 mg/kg	
LOAE		: 5 mg/kg	
	cation Route	: Oral	
	sure time	: 52 w	is all two at . Dis a d
	et Organs		inal tract, Blood
Symp	otoms	: constipation	, Diarmoea
Prop	ylene glycol:		
Speci		: Rat, male	
NOAE		: >= 1,700 mg	ŋ/kg
Applic	cation Route	: Ingestion	
Expos	sure time	: 2 yr	
Aspir	ration toxicity		
Not c	lassified based on av	ailable information.	
Expe	rience with human e	exposure	
Com	ponents:		
Enro	floxacin:		
Inges	tion		Gastrointestinal disturbance, central nervous sys- Sensitivity to light
Sodiu	um [2-[(2,6-dichloroj	ohenyl)amino]phen	yl]acetate:
Inges	tion		Abdominal pain, Diarrhoea, constipation, heart- tion, Dizziness, Headache, Breathing difficulties,

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### **SECTION 12: Ecological information**

### 12.1 Toxicity

Components:		
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 (Chronic 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)
		LOEC: 15 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea)
M-Factor (Chronic aquatic toxicity)	:	10
Benzyl alcohol:		
Toxicity to fish	:	LC50 (Pimephales promelas (fathead minnow)): 460 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 230 mg/l Exposure time: 48 h

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11			Method: OECD Te	est Guideline 202
Toxicit <u>y</u> plants	y to algae/aquatic	:	EC50 (Pseudokiro mg/l Exposure time: 72 Method: OECD Te	
			NOEC (Pseudokir mg/l Exposure time: 72 Method: OECD Te	
	y to daphnia and other invertebrates (Chron- ity)	:	NOEC: 51 mg/l Exposure time: 21 Species: Daphnia Method: OECD Te	magna (Water flea)
Sodiur	n [2-[(2,6-dichlorophe	nyl	)amino]phenyl]ac	etate:
Toxicit	y to fish	:	LC50 (Pimephales Exposure time: 96 Method: OECD Te	
	y to daphnia and other invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: OECD Te	
Toxicit <u>;</u> plants	y to algae/aquatic	:	EC50 (Pseudokiro mg/l Exposure time: 72 Method: OECD Te	
			NOEC (Pseudokir mg/l Exposure time: 72 Method: OECD Te	
Toxicit <u>y</u> icity)	y to fish (Chronic tox-	:	NOEC: 0.32 mg/l Exposure time: 32 Species: Pimepha Method: OECD Te	lles promelas (fathead minnow)
	y to daphnia and other c invertebrates (Chron- ity)	:	NOEC: 10 mg/l Exposure time: 21 Species: Daphnia Method: OECD Te	magna (Water flea)
II Propvl	ene glycol:			
	y to fish	:	LC50 (Oncorhync Exposure time: 96	hus mykiss (rainbow trout)): 40,613 mg/l b h
	y to daphnia and other invertebrates	:	EC50 (Ceriodaphi Exposure time: 48	nia dubia (water flea)): 18,340 mg/l 5 h



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Toxi plan	city to algae/aquatic ts	:	ErC50 (Skeletone Exposure time: 72 Method: OECD Te	
Toxi	city to microorganisms	:	NOEC (Pseudom Exposure time: 18	onas putida): > 20,000 mg/l 3 h
Toxic aqua ic to:	atic invertebrates (Chron-	:	NOEC: 13,020 mg Exposure time: 7 Species: Cerioda	

### 12.2 Persistence and degradability

#### **Components:**

Benzyl	alcohol:
11 - · · · ·	

Biodegradability	:	Result: Readily biodegradable. Biodegradation: 92 - 96 % Exposure time: 14 d
Propylene glycol:		
Biodegradability	:	Result: Readily biodegradable. Biodegradation: 98.3 % Exposure time: 28 d Method: OECD Test Guideline 301F

### 12.3 Bioaccumulative potential

Components:	
Enrofloxacin: Partition coefficient: n- octanol/water	: log Pow: 0.5
Benzyl alcohol: Partition coefficient: n- octanol/water	: log Pow: 1.05
Sodium [2-[(2,6-dichlorop) Partition coefficient: n- octanol/water	nenyl)amino]phenyl]acetate: : log Pow: 4.51
<b>Propylene glycol:</b> Partition coefficient: n- octanol/water	: log Pow: -1.07 Method: Regulation (EC) No. 440/2008, Annex, A.8
12.4 Mobility in soil	

#### **Components:**

Enrofloxacin:



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Distribution among environ- mental compartments		:	Koc: 5.55	
12.5 Resul	ts of PBT and vPvB a	sse	ssment	
Product: Assessment		:	This substance/mixture contains no components considere to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels o 0.1% or higher.	
12.6 Other	adverse effects			
Product: Endocrine disrupting poten- tial			ered to have end according to UK I	nixture does not contain components consid- ocrine disrupting properties for environment REACH Article 57(f).
SECTION 13: Disposal considerations				

### 13.1 Waste treatment methods

Product	<ul> <li>Dispose of in accordance with local regulations.</li> <li>According to the European Waste Catalogue, Waste Codes are not product specific, but application specific.</li> <li>Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.</li> <li>Do not dispose of waste into sewer.</li> </ul>
Contaminated packaging	<ul> <li>Empty containers should be taken to an approved waste han- dling site for recycling or disposal.</li> <li>If not otherwise specified: Dispose of as unused product.</li> </ul>

### **SECTION 14: Transport information**

### 14.1 UN 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)



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I	RID		:	ENVIRONMENTA N.O.S. (Enrofloxacin)	ALLY HAZARDOUS SUBSTANCE, LIQUID,
I	IMDG		:	ENVIRONMENTA N.O.S. (Enrofloxacin)	ALLY HAZARDOUS SUBSTANCE, LIQUID,
I	ΙΑΤΑ		:	Environmentally h (Enrofloxacin)	nazardous substance, liquid, n.o.s.
14.3	Transp	oort hazard class(es)			
				Class	Subsidiary risks
	ADN		:	9	
	ADR		:	9	
	RID		:	9	
	IMDG		:	9	
	ΙΑΤΑ		:	9	
14.4	Packir	ig group			
	ADN Packin Classif Hazarc Labels ADR Packin Classif Hazarc Labels Tunnel Packin Classif Hazarc Labels IMDG Packin Labels EmS C IATA (I Packin aircraft Packin	g group ication Code I Identification Number g group ication Code I Identification Number restriction code g group ication Code I Identification Number g group ode Cargo) g instruction (cargo		III M6 90 9 III M6 90 9 (-) III M6 90 9 (-) III M6 90 9 9 III 9 9 9 III 9 5 -A, S-F 964 Y964 III Miscellaneous	
		Passenger) g instruction (passen-	:	964	

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	ger aircraft) Packing instruction (LQ) Packing group Labels <b>Environmental hazards</b>	: Y964 : III : Miscellaneous	
	ADN Environmentally hazardous	: yes	
	ADR Environmentally hazardous	: yes	
	<b>RID</b> Environmentally hazardous	: yes	
	IMDG Marine pollutant	: yes	
	IATA (Passenger) Environmentally hazardous	: yes	
	IATA (Cargo) Environmentally 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 Transport in bulk according to Annex II of Marpol and the IBC Code

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

Relevant EU provisions transposed through retained EU law

UK REACH List of restrictions (Annex 17)	:	Conditions of restriction for the fol- lowing entries should be considered: Number on list 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.
UK REACH Candidate list of substances of very high concern (SVHC) for Authorisation	:	Not applicable
The Persistent Organic Pollutants Regulations (retained	:	Not applicable

UK REACH Regulations SI 2019/758



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Regu ain)	lation (EU) 2019/1021	as amended for Great	t Brit-				
0	Regulation (EC) No 1005/2009 on substances that de- : Not applicable plete the ozone layer						
UK REACH List of substances subject to authorisation : Not applicable (Annex XIV)							
GB Export and import of hazardous chemicals - Prior : Not applicable Informed Consent (PIC) Regulation							
Control of Major Accident Hazards Regulations 2015 (COMAH)							
E1	ż	ENVIRONMEN HAZARDS	Quantity 1	Quantity 2 200 t			

### Other regulations:

Take note of The Management of Health and Safety at Work Regulations 1999 (requirements relating to new and expectant mothers at work contained in Regulation 16 to 18) and of the Pregnant Workers Directive 92/85/EEC.

Take note of The Management of Health and Safety at Work Regulations 1999 (requirements relating to protection of young people at work contained in Regulation 19) and of Directive 94/33/EC on the protection of young people at work.

#### 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 version are highlighted in the body of this document by two vertical lines.
Full text of H-Statements		
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 repeated exposure.
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 abbreviations

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Aquat Eye Ir Repr. Skin I STOT GB El	ic Acute ic Chronic rit. rrit. RE	: Long-term (cf : Eye irritation : Reproductive : Skin irritation : Specific targe : UK. EH40 WB	cute) aquatic hazard nronic) aquatic hazard

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; 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

### 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:

### Classification procedure: Based on product data or assessment

Based on product data or assessment

Skin Corr. 1	H314
Eye Dam. 1	H318



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	H361f	Calculation method
E 1	H372	Calculation method
Acute 1	H400	Calculation method
Chronic 1	H410	Calculation method
	06.04.2024 E 1 Acute 1	06.04.2024 9374447-00007 H361f E 1 H372 Acute 1 H400

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

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

GB / EN