



Versio 3.6	on Revision Date: 30.09.2023		S Number: 5438-00017	Date of last issue: 04.04.2023 Date of first issue: 28.06.2016
1. PR	ODUCT AND COMPANY IDE	ENT	IFICATION	
F	Product name	:	Orbifloxacin Liqu	id Formulation
Γ	lanufacturer or supplier's d	eta	ils	
(Company	:	MSD	
ļ	ddress	:	50 Tuas West Dr Singapore - Sing	
Г	elephone	:	+1-908-740-4000)
E	mergency telephone number	:	65 6697 2111 (24	4/7/365)
E	-mail address	:	EHSDATASTEW	'ARD@msd.com
F	Recommended use of the ch	nem	ical and restriction	ons on use
-	Recommended use Restrictions on use	:	Veterinary produce Not applicable	ct
2. HA	ZARDS IDENTIFICATION			

GHS Classification		
Reproductive toxicity	:	Category 2
Specific target organ toxicity - repeated exposure (Oral)	:	Category 2 (Eye)
GHS label elements Hazard pictograms	:	
Signal word	:	Warning
Hazard statements	:	H361d Suspected of damaging the unborn child. H373 May cause damage to organs (Eye) through prolonged or repeated exposure if swallowed.
Precautionary statements	:	Prevention: P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P260 Do not breathe mist or vapours. P280 Wear protective gloves/ protective clothing/ eye protec-





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tion/ face protection.

Response:

P308 + P313 IF exposed or concerned: Get medical advice/ attention.

Storage:

P405 Store locked up.

Disposal:

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

Other hazards which do not result in classification

None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Com	onents
-----	--------

Chemical name	CAS-No.	Concentration (% w/w)
Orbifloxacin	113617-63-3	>= 3 -< 10
Lactic acid	50-21-5	>= 1 -< 3
Sodium hydroxide	1310-73-2	>= 1 -< 2

4. 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.
If inhaled	:	If inhaled, remove to fresh air. Get medical attention.
In case of skin contact	:	In case of contact, immediately flush skin with soap and plenty of water. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.
In case of eye contact	:	Flush eyes with water as a precaution. Get medical attention if irritation develops and persists.
If swallowed	:	If swallowed, DO NOT induce vomiting. Get medical attention. Rinse mouth thoroughly with water.
Most important symptoms and effects, both acute and delayed	:	Suspected of damaging the unborn child. May cause damage to organs through prolonged or repeated exposure if swallowed.
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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Note	s to physician	:	Treat symptomati	cally and supportively.
5. FIREFI	GHTING MEASURES			
Suita	ble extinguishing media	:	Water spray Alcohol-resistant f Carbon dioxide (C Dry chemical	
Unsu medi	itable extinguishing	:	None known.	
	ific hazards during fire-	:	Exposure to comb	pustion products may be a hazard to health.
	irdous combustion prod-	:	Carbon oxides Metal oxides	
Spec ods	ific extinguishing meth-	:	: Use extinguishing measures that are appropriate to local cumstances and the surrounding environment. Use water spray to cool unopened containers. Remove undamaged containers from fire area if it is safe so.	
	ial protective equipment efighters	:		e, wear self-contained breathing apparatus. tective equipment.
6. ACCID	ENTAL RELEASE MEA	SUF	RES	
tive e	onal precautions, protec- equipment and emer- y procedures	:	Follow safe handl	tective equipment. ing advice (see section 7) and personal pro- recommendations (see section 8).
Envir	onmental precautions	:	Prevent spreading barriers). Retain and dispos	akage or spillage if safe to do so. g over a wide area (e.g. by containment or oil se of contaminated wash water. should be advised if significant spillages
	ods and materials for ainment and cleaning up	:	For large spills, pu ment to keep mat be pumped, store Clean up remainin bent. Local or national u posal of this mate employed in the c mine which regula Sections 13 and 1	t absorbent material. rovide dyking or other appropriate contain- erial from spreading. If dyked material can recovered material in appropriate container. ng materials from spill with suitable absor- regulations may apply to releases and dis- rial, as well as those materials and items cleanup of releases. You will need to deter- ations are applicable. 15 of this SDS provide information regarding tional requirements.

7. HANDLING AND STORAGE



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Tech	nical measures		• •	measures under EXPOSURE SONAL PROTECTION section.
Local	/Total ventilation	: l	Jse only with ade	quate ventilation.
Advic	e on safe handling	ם א א א א א א א	Handle in accordation of the second accord a	
Cond	litions for safe storage	5	Store locked up.	abelled containers.
Mate	rials to avoid	: [ce with the particular national regulations. the following product types: gents

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis	
Orbifloxacin	113617-63-3	TŴA	0.2 mg/m3 (OEB 2)	Internal	
Sodium hydroxide	1310-73-2	PEL (short term)	2 mg/m3	SG OEL	
		С	2 mg/m3	ACGIH	

Components with workplace control parameters

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 equipme	ent	
Respiratory protection	:	If adequate local exhaust ventilation is not available or expo- sure assessment demonstrates exposures outside the rec- ommended guidelines, use respiratory protection.
Filter type Hand protection	÷	Combined particulates and organic vapour type
Material	:	Chemical-resistant gloves
Eye 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



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	and body protection ene measures	 aerosols. Work uniform of If exposure to of eye flushing sy ing place. When using do Wash contamin The effective of engineering co appropriate designed. 	ect contact to the face with dusts, mists, or or laboratory coat. chemical is likely during typical use, provide stems and safety showers close to the work- on teat, drink or smoke. nated clothing before re-use. peration of a facility should include review of ntrols, proper personal protective equipment, gowning and decontamination procedures, one monitoring, medical surveillance and the trative controls.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	suspension
Colour	:	light brown
Odour	:	odourless
Odour Threshold	:	No data available
рН	:	No data available
Melting point/freezing point	:	No data available
Initial boiling point and boiling range	:	No data available
Flash point	:	No data available
Evaporation rate	:	No data available
Flammability (solid, gas)	:	Not applicable
Flammability (liquids)	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapour pressure	:	No data available
Relative vapour density	:	No data available
Relative density	:	No data available
Density	:	No data available



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Solubility(ies) Water solubility	: No data availab	le
Partition coefficient: n- octanol/water	: No data availab	le
Auto-ignition temperature	: No data availab	le
Decomposition temperature	: No data availab	le
Viscosity Viscosity, kinematic	: No data availab	le
Explosive properties	: Not explosive	
Oxidizing properties	: The substance of	or mixture is not classified as oxidizing.
Molecular weight	: No data availab	le
Particle size	: No data availab	le

10. STABILITY AND REACTIVITY

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

11. TOXICOLOGICAL INFORMATION

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

Acute toxicity

Not classified based on available information.

Components:

Orbifloxacin:

Acute oral toxicity	: LD50 (Rat): > 3,000 mg/kg Remarks: No mortality observed at this dos	e.

LD50 (Mouse): > 2,000 mg/kg Remarks: No mortality observed at this dose.





sion	Revision Date: 30.09.2023		OS Number: 5438-00017	Date of last issue: 04.04.2023 Date of first issue: 28.06.2016
			LD50 (Dog): > 6 Symptoms: Vom Remarks: No mo	
Acute	inhalation toxicity	:	Remarks: No da	ta available
Acute	dermal toxicity	:	Remarks: No da	ta available
	toxicity (other routes of istration)	:	LD50 (Rat): > 20 Application Rout	00 mg/kg e: Intramuscular
			LD50 (Mouse): Application Rout	500 mg/kg e: Intramuscular
			LD50 (Rat): 233 Application Rout	
			LD50 (Mouse): 2 Application Rout	
Lactio	acid:			
Acute	oral toxicity	:	LD50 (Rat): > 2, Remarks: Based	000 mg/kg I on data from similar materials
Acute	inhalation toxicity	:	Assessment: Co	4 h
Acute	dermal toxicity	:	toxicity	2,000 mg/kg e substance or mixture has no acute derma I on data from similar materials
Sodiu	m hydroxide:			
Acute	inhalation toxicity	:	Assessment: Co	rrosive to the respiratory tract.
-	corrosion/irritation assified based on availa	ble	information.	
<u>Produ</u>				
Specie Result		:	Rabbit No skin irritation	
<u>Comp</u>	oonents:			
Orbifl	oxacin:			
Specie	es	:	Rabbit	



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Metho Resu		:	Draize Test No skin irritatio	n
Lacti	c acid:			
Speci	ies	:	Rabbit	
Metho	Method		OECD Test Gu	
Resu		:		1 to 4 hours of exposure
Rema	arks	÷	Based on data	from similar materials
Sodiu	um hydroxide:			
Resu	lt	:	Corrosive after	3 minutes or less of exposure
Serio	ous eye damage/eye	irritati	ion	
Not c	lassified based on ava	ailable	information.	
Prod	uct:			
Speci		:	Rabbit	
Resu	lt	:	Mild eye irritatio	n
<u>Com</u>	ponents:			
Orbif	loxacin:			
Speci		:	Rabbit	
Resu		:	Mild eye irritatio	on
Metho	DC	-	Draize Test	
Lacti	c acid:			
Speci		:	Chicken eye	
Rema	arks	:	Based on data	from similar materials
Resu	lt	:	Irreversible effe	ects on the eye
Sodiu	um hydroxide:			
Resu		:	Irreversible effe	
Rema	arks	:	Based on skin	corrosivity.
Resp	iratory or skin sensi	itisatio	on	
	sensitisation lassified based on ava	ailable	information.	
Resp	iratory sensitisation	1		
-	lassified based on ava		information.	
Prod	uct:			
Test		:	Magnusson-Kli	gman-Test
			D	~



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	Result		:	Not a skin sensitiz	zer.
	<u>Compo</u>	nents:			
	Orbiflo	xacin:			
	Test Ty Exposu Species Result	re routes	:	Maximisation Tes Dermal Guinea pig Not a skin sensitiz	
	Lactic a	acid:			
	Test Ty Exposu Species Result Remark	re routes	: : : : : : : : : : : : : : : : : : : :	Buehler Test Skin contact Guinea pig negative Based on data fro	m similar materials
	Sodium	hydroxide:			
	Test Ty Exposu Result	pe re routes	:	Human repeat ins Skin contact negative	ult patch test (HRIPT)
	Not clas	ell mutagenicity sified based on avai	ilable	information.	
	<u>Compo</u>				
	Orbiflo: Genoto:	xacin: xicity in vitro	:	Test Type: Bacter Result: equivocal	ial reverse mutation assay (AMES)
				Test Type: Mouse Result: positive	Lymphoma
				Test Type: Chrom Test system: Hum Result: positive	osomal aberration nan lymphocytes
	Genoto	xicity in vivo	:	Result: negative Test Type: unsche Species: Rat Cell type: Liver ce Application Route	arrow : Intraperitoneal injection eduled DNA synthesis assay Ils
				Result: negative	



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	cell mutagenicity -		ght of evide mutagen.	nce does not support classification as a gerr		
Lactio	c acid:					
Genotoxicity in vitro		Met Res	hod: OECD sult: negative	erial reverse mutation assay (AMES) Test Guideline 471 e d on data from similar materials		
		Met Res	hod: OECD sult: negative	tro mammalian cell gene mutation test Test Guideline 476 e d on data from similar materials		
		Met		omosome aberration test in vitro Test Guideline 473 a		
			Remarks: Based on data from similar materials			
Carci	nogenicity					
Not cl <u>Comp</u>	nogenicity assified based on ava ponents:	ilable infor	mation.			
Not cl <u>Comp</u> Orbifl	assified based on ava ponents: loxacin:	illable infor				
Not cl Comp Orbifl Speci Applic	assified based on ava <u>ponents:</u> loxacin: es cation Route	: Rat : Ora	I			
Not cl Comp Orbifl Speci Applic Expos	assified based on ava <u>conents:</u> loxacin: es cation Route sure time	: Rat : Ora : 2 Ye	l ears			
Not cl Comp Orbifl Speci Applic	assified based on ava <u>conents:</u> loxacin: es cation Route sure time EL	: Rat : Ora : 2 Yo : 200	I	v weight		
Not cl Comr Orbifl Speci Applic Expos NOAE Resul	assified based on ava <u>conents:</u> loxacin: es cation Route sure time EL t	: Rat : Ora : 2 Y : 200 : neg	l ears mg/kg body ative	r weight		
Not cl Comr Orbifl Speci Applic Expos NOAE Resul	assified based on ava <u>conents:</u> loxacin: es cation Route sure time EL t es	: Rat : Ora : 2 Yo : 200	l ears mg/kg body ative use	r weight		
Not cl Comp Orbifl Speci Applic Expos NOAE Resul Speci Applic	assified based on ava <u>conents:</u> loxacin: es cation Route sure time EL t	: Rat : Ora : 2 Y : 200 : neg : Mou : Ora	l ears mg/kg body ative use	v weight		
Not cl Comp Orbifl Speci Applic Expos NOAE Resul Speci Applic Expos NOAE	assified based on ava <u>conents:</u> loxacin: es cation Route sure time EL t es cation Route sure time EL	: Rat : Ora : 2 Ye : 200 : neg : Mou : Ora : 2 Ye : 200	I ears mg/kg body ative use I ears mg/kg body	-		
Not cl Comp Orbifl Speci Applic Expos NOAE Resul Speci Applic Expos	assified based on ava <u>conents:</u> loxacin: es cation Route sure time EL t es cation Route sure time EL	: Rat : Ora : 2 Ye : 200 : neg : Mou : Ora : 2 Ye : 200	l ears mg/kg body ative use l ears	-		
Not cl Comp Orbifl Speci Applic Expos NOAE Resul Speci Applic Expos NOAE Resul	assified based on ava <u>conents:</u> loxacin: es cation Route sure time EL t es cation Route sure time EL	: Rat : Ora : 2 Ye : 200 : neg : Mou : Ora : 2 Ye : 200	I ears mg/kg body ative use I ears mg/kg body	-		
Not cl Comp Orbifl Speci Applic Expos NOAE Resul Speci Applic Expos NOAE Resul	assified based on ava <u>conents:</u> loxacin: es cation Route sure time EL t es cation Route sure time EL t cacid:	: Rat : Ora : 2 Ye : 200 : neg : Mou : Ora : 2 Ye : 200	l mg/kg body ative use l ears mg/kg body ative	-		
Not cl Comp Orbifl Speci Applic Expos NOAE Resul Speci Applic Expos NOAE Resul Lactic Speci Applic	assified based on ava <u>conents:</u> loxacin: es cation Route sure time EL t es cation Route sure time EL t c acid: es cation Route	: Rat : Ora : 2 Yo : 200 : neg : Mou : Ora : 2 Yo : 200 : neg : Rat : Inge	I mg/kg body ative use I ears mg/kg body ative	-		
Not cl Comp Orbifl Speci Applic Expos NOAE Resul Speci Applic Expos NOAE Resul Lactic Speci Applic Expos	assified based on ava <u>conents:</u> loxacin: es cation Route sure time EL t es cation Route sure time EL t c acid: es cation Route sure time cation Route sure time	: Rat : Ora : 2 Y : 200 : neg : Mot : Ora : 2 Y : 200 : neg : Rat : Inge : 2 Y	I ears mg/kg body ative use I ears mg/kg body ative estion ears	-		
Not cl Comp Orbifl Speci Applic Expos NOAE Resul Speci Applic Expos NOAE Resul Lactic Speci Applic Expos Resul	assified based on ava <u>conents:</u> loxacin: es cation Route sure time EL t cation Route sure time EL t cation Route sure time EL t t cation Route sure time t	: Rat : Ora : 2 Yi : 200 : neg : Mou : Ora : 2 Yi : 200 : neg : Rat : Inge : 2 Yi : neg	I mg/kg body ative use I ears mg/kg body ative estion ears ative	r weight		
Not cl Comp Orbifl Speci Applic Expos NOAE Resul Speci Applic Expos NOAE Resul Lactic Speci Applic Expos	assified based on ava <u>conents:</u> loxacin: es cation Route sure time EL t cation Route sure time EL t cation Route sure time EL t t cation Route sure time t	: Rat : Ora : 2 Yi : 200 : neg : Mou : Ora : 2 Yi : 200 : neg : Rat : Inge : 2 Yi : neg	I mg/kg body ative use I ears mg/kg body ative estion ears ative			
Not cl <u>Comp</u> OrbifI Speci Applic Expos NOAE Resul Speci Applic Expos NOAE Resul Lactic Speci Applic Expos Resul Resul Resul Resul	assified based on ava <u>conents:</u> loxacin: es cation Route sure time EL t cation Route sure time EL t cation Route sure time EL t t cation Route sure time t	: Rat : Ora : 2 Yi : 200 : neg : Mou : Ora : 2 Yi : 200 : neg : Rat : Inge : 2 Yi : neg	I mg/kg body ative use I ears mg/kg body ative estion ears ative	r weight		

Components:

Orbifloxacin:



rsion S	Revision Date: 30.09.2023		DS Number: 5438-00017	Date of last issue: 04.04.2023 Date of first issue: 28.06.2016
Effect	s on fertility	:	Species: Rat Application Rou General Toxicit	y - Parent: NOAEL: 50 mg/kg body weight c Development: NOAEL: 50 mg/kg body
Effects on foetal develop- ment		:	 Test Type: Embryo-foetal development Species: Rat Application Route: Oral Embryo-foetal toxicity: LOAEL: 333 mg/kg body we Result: No teratogenic effects, Embryotoxic effects verse effects on the offspring were detected only at ternally toxic doses 	
			Species: Rabbi Application Rou General Toxicit Embryo-foetal t Result: No effects an	Ite: Oral y Maternal: NOAEL: 20 mg/kg body weight oxicity: NOAEL: 60 mg/kg body weight cts on early embryonic development, Embryo d adverse effects on the offspring were detect maternally toxic doses, Reduced maternal
Repro sessm	ductive toxicity - As- nent	:	Some evidence animal experim	e of adverse effects on development, based o ents.
	c acid: s on foetal develop-	:	Test Type: Eml Species: Mouse Application Rou Result: negative	ite: Ingestion
	- single exposure assified based on avail	lable	information.	
	- repeated exposure ause damage to organ	is (Ey	/e) through prolo	nged or repeated exposure if swallowed.

Product:

Target Organs:Assessment:	Eye May cause damage to organs through prolonged or repeated
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		exposure.	
Repe	ated dose toxicity		
<u>Prod</u>	-		
Expos Symp Speci LOAE Applic Expos Symp	EL EL cation Route sure time otoms ies EL cation Route sure time otoms		l disturbance trointestinal disturbance, Vomiting
Expo	EL cation Route sure time et Organs	: Cat : 45 mg/kg : Oral : 30 Days : Eye : Salivation, Lach disorders	nrymation, Gastrointestinal disturbance, Liver
Com	ponents:		
Orbif	loxacin:		
Expo	ΞL	: Rat : 20 mg/kg : 80 mg/kg : Oral : 3 Months : Testis, Liver, K	idney, spleen
	ΞL	: Mouse : 80 mg/kg : 250 mg/kg : Oral : 3 Months	
Expo	EL EL cation Route sure time et Organs otoms	 Juvenile dog 50 mg/kg 250 mg/kg Oral 14 Days Heart, Bone Gastrointestina mortality obser 	



ersion B	Revision Date: 30.09.2023	SDS Number: 785438-00017	Date of last issue: 04.04.2023 Date of first issue: 28.06.2016		
Expos	EL EL cation Route sure time et Organs	: Juvenile dog : 2 mg/kg : 3 mg/kg : Oral : 90 Days : Bone : No significant a	adverse effects were reported		
		: Dog : 37.5 mg/kg : Oral : 30 Days			
	EL EL cation Route sure time	: Cat : 7.5 mg/kg : 22.5 mg/kg : Oral : 1 Months : Gastrointestina	Il disturbance		
Speci NOAE Applic	EL cation Route sure time	: Rat : > 100 mg/kg : Ingestion : 13 Weeks : Based on data	from similar materials		
		: Rat : 886 mg/kg : Skin contact : 13 Weeks			
-	ration toxicity lassified based on av	ailable information			
	rience with human				
<u>Com</u>	oonents:				
Orbif Inges	loxacin: tion	disturbance, liv	ntral nervous system effects, Gastrointesti er function change, anaphylaxis, Rash cause photosensitisation.		

Components:

Lactic acid:



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Toxicity	y to fish	:	Exposure time: 96 Method: OECD T			
Toxicity to daphnia and other aquatic invertebrates		:	EC50 (Daphnia magna (Water flea)): > 100 mg/l Exposure time: 48 h Method: OECD Test Guideline 202 Remarks: Based on data from similar materials			
Toxicity to algae/aquatic plants		:	ErC50 (Pseudokirchneriella subcapitata (green algae) mg/l Exposure time: 72 h Method: OECD Test Guideline 201 Remarks: Based on data from similar materials			
			mg/l Exposure time: 72 Method: OECD T			
Toxicit	y to microorganisms	:	EC50: > 10 - 100 Exposure time: 3 Method: OECD T Remarks: Based	h		
Persis	tence and degradabil	ity				
Compo	onents:					
Lactic Biodeg	acid: ıradability	:	Result: Not readil Remarks: Based	y biodegradable. on data from similar materials		
Bioaco	cumulative potential					
Compo	onents:					
Lactic Partitio octano	n coefficient: n-	:	log Pow: -0.62			
	t y in soil a available					
	adverse effects a available					



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13. DISPOSAL CONSIDERATIONS

Disposal methods		
Waste from residues	:	Do not dispose of waste into sewer. Dispose of in accordance with local regulations.
Contaminated packaging	:	Empty containers should be taken to an approved waste han- dling site for recycling or disposal. If not otherwise specified: Dispose of as unused product.

14. TRANSPORT INFORMATION

International Regulations

UNRTDG

UN number	:	Not applicable
Proper shipping name	:	Not applicable
Class	:	Not applicable
Subsidiary risk	:	Not applicable
Packing group	:	Not applicable
Labels	:	Not applicable
IATA-DGR		
UN/ID No.	:	Not applicable
Proper shipping name	:	Not applicable
Class	:	Not applicable
Subsidiary risk	:	Not applicable
Packing group	:	Not applicable
Labels	:	Not applicable
Packing instruction (cargo	:	Not applicable
aircraft)		
Packing instruction (passen-	:	Not applicable
ger aircraft)		
IMDG-Code		
UN number	:	Not applicable

UN number	:	Not applicable
Proper shipping name	:	Not applicable
Class	:	Not applicable
Subsidiary risk	:	Not applicable
Packing group	:	Not applicable
Labels	:	Not applicable
EmS Code	:	Not applicable
Marine pollutant	:	Not applicable

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

Not applicable



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15. REGULATORY INFORMATION

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

Workplace Safety and Health Act and Workplace Safety and Health (General Provisions) Regulations: This product is subjected to the SDS, labelling, PEL and other requirements in the Act/Regulations.

Environmental Protection and Management Act and Environmental Protection and Management (Hazard- ous Substances) Regulations	:	Not applicable
Fire Safety (Petroleum and Flammable Materials)	:	Not applicable

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

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

16. OTHER INFORMATION

Regulations

Revision Date	:	30.09.2023			
Further information Sources of key data used to compile the Safety Data Sheet	:	Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agen- cy, http://echa.europa.eu/			
Date format	:	dd.mm.yyyy			
Full text of other abbreviations					
ACGIH SG OEL	:	USA. ACGIH Threshold Limit Values (TLV) Singapore. Workplace Safety and Health (General Provisions) Regulations - First Schedule Permissible Exposure Limits of Toxic Substances.			
ACGIH / C SG OEL / PEL (short term)	:	Ceiling limit Permissible Exposure Level (PEL) Short Term			

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 Sys-

SAFETY DATA SHEET



Orbifloxacin Liquid Formulation

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tem; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk: IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative: WHMIS - Workplace Hazardous Materials Information System

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

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