



Version 6.0	Revision Date: 30.09.2023	-	S Number: 437-00017		sue: 04.04.2023 sue: 28.06.2016
Section 1	: Identification				
Prod	uct name	:	Orbifloxacin L	iquid Formulation	
Man	ufacturer or supplier's d	letai	ls		
Com	pany	:	MSD		
Addr	ess	:	33 Whakatiki Upper Hutt - N	Street - Private Ba New Zealand	ig 908
Telep	ohone	:	0800 800 543	5	
Eme	rgency telephone number	• :	0800 764 766 CHEMCALL)	6 (0800 POISON)	0800 243 622 (0800
E-ma	ail address	:	EHSDATAST	EWARD@msd.co	m
Reco	ommended use of the cl	nem	ical and restri	ctions on use	
	ommended use	:	Veterinary pro		
Rest	rictions on use	:	Not applicable	9	
Section 2	2: Hazard identification				
GHS	Classification				
Repr	oductive toxicity	:	Category 2		
	ific target organ toxicity - ated exposure (Oral)	:	Category 2 (E	eye)	
GHS	label elements				
Haza	ard pictograms	:			
Signa	al word	:	Warning		
Hazard statements		:	H373 May cau	cted of damaging use damage to org osure if swallowed	ans (Eye) through prolonged





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P280 Wear protective gloves/ protective clothing/ eye protection/ 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.

### Section 3: Composition/information on ingredients

Substance / Mixture	:	Mixture
---------------------	---	---------

#### Components

Chemical name	CAS-No.	Concentration (% w/w)
Propylene glycol	57-55-6	>= 10 -< 20
Orbifloxacin	113617-63-3	>= 1 -< 10
Lactic acid	50-21-5	>= 1 -< 3
Sodium hydroxide	1310-73-2	>= 1 -< 2

#### Section 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	:	





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	ection 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).
	s to physician	:	Treat symptomatically and supportively.
	ble extinguishing media	:	Water spray Alcohol-resistant foam Carbon dioxide (CO2)
	itable extinguishing	:	Dry chemical None known.
	ific hazards during fire-	:	Exposure to combustion products may be a hazard to health.
fightii Haza ucts	irdous combustion prod-	:	Carbon oxides Metal oxides
Spec ods	ific extinguishing meth-	:	Use extinguishing measures that are appropriate to local cir- cumstances and the surrounding environment. Use water spray to cool unopened containers. Remove undamaged containers from fire area if it is safe to do so.
	ial protective equipment efighters	:	Evacuate area. In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.
Section 6	: Accidental release me	easi	ures
tive e	onal precautions, protec- equipment and emer- y procedures	:	Use personal protective equipment. Follow safe handling advice (see section 7) and personal pro- tective equipment recommendations (see section 8).
Envir	onmental 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.
	ods and materials for ainment and 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.



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### Section 7: Handling and storage

Technical measures Local/Total ventilation Advice on safe handling	:	See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section. Use only with adequate ventilation. Do not breathe mist or vapours. Do not swallow. Avoid contact with eyes. Avoid prolonged or repeated contact with skin. Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure as- sessment Take care to prevent spills, waste and minimize release to the
Hygiene measures	:	Take care to prevent spills, waste and minimize release to the environment. If exposure to chemical is likely during typical use, provide eye flushing systems and safety showers close to the working place. When using do not eat, drink or smoke. Wash contaminated clothing before re-use. The effective operation of a facility should include review of engineering controls, proper personal protective equipment, appropriate degowning and decontamination procedures, industrial hygiene monitoring, medical surveillance and the use of administrative controls.
Conditions for safe storage	:	Keep in properly labelled containers. Store locked up.
Materials to avoid	:	Store in accordance with the particular national regulations. Do not store with the following product types: Strong oxidizing agents

#### Section 8: Exposure controls/personal protection

### Components with workplace control parameters

:

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Propylene glycol	57-55-6	WES-TWA (particulate)	10 mg/m3	NZ OEL
		WES-TWA (Vapour and particulates)	150 ppm 474 mg/m3	NZ OEL
Orbifloxacin	113617-63-3	TWA	0.2 mg/m3 (OEB 2)	Internal
Sodium hydroxide	1310-73-2	WES-Ceiling	2 mg/m3	NZ OEL
		С	2 mg/m3	ACGIH

Engineering measures

Use appropriate engineering controls and manufacturing technologies to control airborne concentrations (e.g., drip-



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		design and op protect produc	nections). g controls should be implemented by facility erated in accordance with GMP principles to ts, workers, and the environment. erations do not require special containment.		
Perso	onal protective equip	ment			
Respiratory protection		sure assessme ommended gu	<ul> <li>If adequate local exhaust ventilation is not available or exposure assessment demonstrates exposures outside the recommended guidelines, use respiratory protection.</li> <li>Combined particulates and organic vapour type</li> </ul>		
	protection				
Ma	aterial	: Chemical-resis	stant gloves		
	rotection	If the work env mists or aerose Wear a facesh potential for din aerosols.	asses with side shields or goggles. ironment or activity involves dusty conditions, ols, wear the appropriate goggles. ield or other full face protection if there is a rect contact to the face with dusts, mists, or		
Skin a	and body protection	: Work uniform of	or laboratory coat.		

#### Section 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

### SAFETY DATA SHEET



### Orbifloxacin Liquid Formulation

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Vapou	ir pressure	:	No data available	e
Relativ	ve vapour density	:	No data available	e
Relativ	ve density	:	No data available	e
Densit	у	:	No data available	e
	lity(ies) Iter solubility	:	No data available	e
	on coefficient: n-	:	No data available	e
	ol/water gnition temperature	:	No data available	e
Decon	nposition temperature	:	No data available	e
Viscos			Nie dete evellekt	
VIS	cosity, kinematic		No data available	e
Explos	sive properties	:	Not explosive	
Oxidiz	ing properties	:	The substance o	r mixture is not classified as oxidizing.
Molec	ular weight	:	No data available	e
Particl	e size	:	No data available	e

### Section 10: Stability and reactivity

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

### Section 11: Toxicological information

Exposure routes	: Inhalation
-	Skin contact
	Ingestion
	Eye contact

#### Acute toxicity

Not classified based on available information.



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<u>Produ</u> Acute	<u>uct:</u> oral toxicity	:	Acute toxicity es Method: Calcula	stimate: > 2,000 mg/kg ation method	
Acute	Acute dermal toxicity		Acute toxicity estimate: > 2,000 mg/kg Method: Calculation method		
Comp	oonents:				
Propy	/lene glycol:				
Acute	oral toxicity	:	LD50 (Rat): 22,0	000 mg/kg	
Acute	inhalation toxicity	:	LC50 (Rat): > 44 Exposure time: 4 Test atmosphere	4 h	
Acute	dermal toxicity	:	LD50 (Rabbit): > 2,000 mg/kg Assessment: The substance or mixture has no acute de toxicity		
Orbifl	oxacin:				
	Acute oral toxicity		LD50 (Rat): > 3, Remarks: No me	000 mg/kg ortality observed at this dose.	
			LD50 (Mouse): : Remarks: No me	> 2,000 mg/kg ortality observed at this dose.	
			LD50 (Dog): > 6 Symptoms: Vom Remarks: No me		
Acute	inhalation toxicity	:	Remarks: No da	ata available	
Acute	dermal toxicity	:	Remarks: No da	ata available	
	toxicity (other routes of istration)	:		00 mg/kg te: Intramuscular	
			LD50 (Mouse): Application Rou	500 mg/kg te: Intramuscular	
			LD50 (Rat): 233 Application Rou		
			LD50 (Mouse): 2 Application Rou		
II Lactio	c acid:				
	oral toxicity	:	LD50 (Rat): > 2, Remarks: Based	000 mg/kg d on data from similar materials	

### SAFETY DATA SHEET



ersion C	Revision Date: 30.09.2023		S Number: 5437-00017	Date of last issue: 04.04.2023 Date of first issue: 28.06.2016	
Acute	inhalation toxicity	:	Assessment: C	4 h	
Acute dermal toxicity :		:	LD50 (Rabbit): > 2,000 mg/kg Assessment: The substance or mixture has no acute derm toxicity Remarks: Based on data from similar materials		
Sodiu	ım hydroxide:				
	oral toxicity	:	Method: Expert	stimate: 500 mg/kg judgement d on national or regional regulation.	
Acute	inhalation toxicity	:	Assessment: C	orrosive to the respiratory tract.	
Acute	dermal toxicity	:	<ul> <li>Acute toxicity estimate: 1,100 mg/kg Method: Expert judgement Remarks: Based on national or regional regulation.</li> </ul>		
II Skin	corrosion/irritation				
-	assified based on ava	ailable	information.		
-	assified based on ava	ailable	information.		
Not cl	assified based on ava <u>uct:</u> es	ailable : :	information. Rabbit No skin irritatio	n	
Not cl <u>Produ</u> Speci Resul	assified based on ava <u>uct:</u> es	ailable : :	Rabbit	n	
Not cl <u>Produ</u> Speci Resul	assified based on ava <u>uct:</u> es t	ailable : :	Rabbit	n	
Not cl <u>Produ</u> Speci Resul	assified based on ava <u>uct:</u> es t <u>ponents:</u> ylene glycol: es od	ailable : : :	Rabbit	ideline 404	
Not cl Produ Speci Resul Comp Propy Speci Metho Resul	assified based on ava <u>uct:</u> es t <u>ponents:</u> ylene glycol: es od	ailable : : :	Rabbit No skin irritatio Rabbit OECD Test Gu	ideline 404	
Not cl Produ Speci Resul Comp Propy Speci Metho Resul Orbiff	assified based on ava <u>uct:</u> es t <u>ponents:</u> <b>/lene glycol:</b> es od t <b>loxacin:</b> es	ailable : : : :	Rabbit No skin irritatio Rabbit OECD Test Gu No skin irritatio Rabbit	ideline 404	
Not cl Produ Speci Resul Comp Propy Speci Metho Resul Orbif	assified based on ava <u>uct:</u> es t <b>ponents:</b> <b>ylene glycol:</b> es od t <b>loxacin:</b> es od	ailable : : : : : :	Rabbit No skin irritatio Rabbit OECD Test Gu No skin irritatio	ideline 404 n	
Not cl Produ Speci Resul Comp Propy Speci Metho Resul Orbiff Metho Resul	assified based on ava <u>uct:</u> es t <b>ponents:</b> <b>ylene glycol:</b> es od t <b>loxacin:</b> es od	ailable : : : : : :	Rabbit No skin irritatio Rabbit OECD Test Gu No skin irritatio Rabbit Draize Test	ideline 404 n	
Not cl Produ Speci Resul Comp Propy Speci Metho Resul Speci Metho Resul Lactic Speci	assified based on ava <u>uct:</u> es t <b>ponents:</b> <b>ylene glycol:</b> es od t <b>loxacin:</b> es od t <b>c acid:</b> es	ailable : : : : :	Rabbit No skin irritatio Rabbit OECD Test Gu No skin irritatio Rabbit Draize Test No skin irritatio Rabbit	ideline 404 n	
Not cl Produ Speci Resul Comp Propy Speci Metho Resul Orbifl Speci Metho Resul Lactio	assified based on availant assified based on availant assified based on availant assified based on availant assified based on availant booments: ylene glycol: es bod t bod t c acid: es bod t	ailable : : : : : : : : : :	Rabbit No skin irritatio Rabbit OECD Test Gu No skin irritatio Rabbit Draize Test No skin irritatio Rabbit OECD Test Gu	ideline 404 n	



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Sodi	um hydroxide:		
Resu	ılt	: Corrosive after	r 3 minutes or less of exposure
	bus eye damage/eye classified based on ava		
Prod	uct:		
Spec Resu		: Rabbit : Mild eye irrita	ion
<u>Com</u>	ponents:		
	ylene glycol:		
Spec Resu		: Rabbit : No eye irritati	n
Meth		: OECD Test G	
	floxacin:		
Spec Resu		: Rabbit : Mild eye irrita	ion
Meth		: Draize Test	
Lacti	ic acid:		
Spec Rem		: Chicken eye	a from similar materials
Resu			fects on the eye
Sodi	um hydroxide:		
Resu Rema		: Irreversible ef : Based on skir	fects on the eye a corrosivity.
Resp	biratory or skin sensi	tisation	
-	sensitisation	ailable information.	
-	<b>biratory sensitisation</b> classified based on available		
Prod	uct:		
	Туре	: Magnusson-K	ligman-Test
Expo Spec	sure routes ies	: Dermal : Guinea pig	
Resu		: Not a skin ser	nsitizer.
			nsitizer.



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Com	oonents:		
	vlene glycol:		
Test		: Maximisation T	Tost
	sure routes	: Skin contact	651
Speci		: Guinea pig	
Resu	t	: negative	
Orbif	loxacin:		
Test	Гуре	: Maximisation T	est
	sure routes	: Dermal	
Speci Resu		: Guinea pig : Not a skin sens	hitizor.
Resu	l	. NOL a SKIN SENS	silizer.
Lactio	c acid:		
Test		: Buehler Test	
Expos Speci	sure routes	: Skin contact	
Resu		: Guinea pig : negative	
Rema			from similar materials
	ım hydroxide:		
Test	l ype sure routes	: Human repeat : Skin contact	insult patch test (HRIPT)
Resu		: negative	
Chro	nic toxicity		
Germ	cell mutagenicity		
Not cl	assified based on available	ailable information.	
Com	oonents:		
Propy	/lene glycol:		
Geno	toxicity in vitro	: Test Type: Bao Result: negativ	cterial reverse mutation assay (AMES) e
			romosome aberration test in vitro ) Test Guideline 473 re
Geno	toxicity in vivo	cytogenetic as Species: Mous Application Ro	e ute: Intraperitoneal injection
		Result: negativ	'e
Orbif	loxacin:		



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II		Result: equ	ivocal	
		Test Type: Result: pos	Mouse Lymphoma itive	
			Chromosomal aberration n: Human lymphocytes itive	
Genotoxicity in vivo	Species: M Cell type: B	one marrow Route: Intraperitoneal injection		
		Species: Ra Cell type: L	iver cells Route: Oral	
	cell mutagenicity - ssment		: Weight of evidence does not support classification as a cell mutagen.	
Lactio	c acid:			
Genotoxicity in vitro		Method: OB Result: neg	Bacterial reverse mutation assay (AMES) ECD Test Guideline 471 ative Based on data from similar materials	
		Method: OB Result: neg	In vitro mammalian cell gene mutation test ECD Test Guideline 476 ative ased on data from similar materials	
		Method: OB Result: neg	Chromosome aberration test in vitro CD Test Guideline 473 ative based on data from similar materials	

Not classified based on available information.

### Components:

### Propylene glycol:

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



Specie Applica	ation Route ure time	: 0	Rat				
	-	: 2	Dral 2 Years 200 mg/kg bo	dy weight			
Specie Applica Exposu NOAEI Result	ation Route ure time	: N : C : 2 : 2	<ul> <li>negative</li> <li>Mouse</li> <li>Oral</li> <li>2 Years</li> <li>200 mg/kg body weight</li> <li>negative</li> </ul>				
	s ation Route ure time	: li : 2 : r	Rat ngestion Years legative Based on data	a from similar materials			
Suspe	ductive toxicity cted of damaging the onents:	unborn	child.				
	ene glycol: on fertility	S	Species: Mou	oute: Ingestion			
Effects ment	on foetal develop-	S	Species: Mou	oute: Ingestion			
	on fertility	S A C E V	Species: Rat Application Re General Toxic Early Embryo Veight	vo-generation reproduction toxicity study oute: Oral city - Parent: NOAEL: 50 mg/kg body weigh nic Development: NOAEL: 50 mg/kg body verse effects			
Effects ment	on foetal develop-	S A E	Species: Rat Application Re Embryo-foeta	nbryo-foetal development oute: Oral I toxicity: LOAEL: 333 mg/kg body weight atogenic effects, Embryotoxic effects and a			



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II			se effects o nally toxic d	n the offspring were detected only at high ma-
		Te: Sp Ap Ge Em Re tox ed	st Type: Em ecies: Rabb plication Ro neral Toxici ıbryo-foetal sult: No effe ic effects ar	bryo-foetal development it ute: Oral ty Maternal: NOAEL: 20 mg/kg body weight toxicity: NOAEL: 60 mg/kg body weight ects on early embryonic development, Embryo- id adverse effects on the offspring were detect maternally toxic doses, Reduced maternal
		Sp Ap De Re		
Repro sessn	oductive toxicity - As- nent		me evidenco mal experin	e of adverse effects on development, based or nents.
Lacti	c acid:			
Effect ment	s on foetal develop-	Sp Ap	ecies: Mous	ute: Ingestion
II STOT	- single exposure			
Not c	lassified based on avail	able info	rmation.	
	- repeated exposure			
-		s (Eye) ti	hrough proid	onged or repeated exposure if swallowed.
	uct: et Organs ssment			nage to organs through prolonged or repeated
Repe	ated dose toxicity			
Prod	uct:			
Speci		: Do		
NOAE LOAE			5 mg/kg 5 mg/kg	
	cation Route	: 0ra		
Expo	sure time		Days	
Symp	toms	: Ga	strointestina	al disturbance



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LOAE	L ation Route	: 75 mg/kg : Oral	
	sure time	: 10 Days	
Symp			trointestinal disturbance, Vomiting
Specie		: Cat	
LOAE		: 45 mg/kg	
	ation Route	: Oral : 30 Days	
	t Organs	: Eye	
Symp			nrymation, Gastrointestinal disturbance, Liver
Comp	oonents:		
Propy	/lene glycol:		
Speci		: Rat, male	
NOAE		: >= 1,700 mg/ko : Ingestion	)
	ation Route	: 2 yr	
		).	
	oxacin:	5.	
Specie NOAE		: Rat : 20 mg/kg	
LOAE		: 80 mg/kg	
Applic	ation Route	: Oral	
Expos	sure time	: 3 Months	
Targe	t Organs	: Testis, Liver, K	idney, spleen
Speci	es	: Mouse	
NOAE	EL	: 80 mg/kg	
	L ation Route	: 250 mg/kg : Oral	
	sure time	: 3 Months	
Speci	es	: Juvenile dog	
NOAE		: 50 mg/kg	
LOAE		: 250 mg/kg	
	ation Route	: Oral : 14 Days	
	t Organs	: Heart, Bone	
Symp		: Gastrointestina	l disturbance
Rema	rks	: mortality obser	ved
Speci		: Juvenile dog	
NOAE LOAE		: 2 mg/kg	
	L ation Route	: 3 mg/kg : Oral	
Expos	sure time	: 90 Days	
Targe	t Organs	: Bone	
Rema	rks	: No significant a	dverse effects were reported



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		: Dog : 37.5 mg/kg : Oral : 30 Days				
Expo	EL	: Cat : 7.5 mg/kg : 22.5 mg/kg : Oral : 1 Months : Gastrointestina	al disturbance			
	ic acid:					
	EL ication Route osure time	: Rat : > 100 mg/kg : Ingestion : 13 Weeks : Based on data	from similar materials			
		: Rat : 886 mg/kg : Skin contact : 13 Weeks	886 mg/kg Skin contact			
Not o	ration toxicity classified based on ava erience with human e					
_	ponents:	Apooli o				
Orbi	floxacin: stion	disturbance, li	ntral nervous system effects, Gastrointestinal ver function change, anaphylaxis, Rash v cause photosensitisation.			
Section 1	2: Ecological inform	ation				
Ecot	oxicity					
Com	ponents:					
Prop	ylene glycol:					
Τοχία	city to fish	: LC50 (Oncorh Exposure time	ynchus mykiss (rainbow trout)): 40,613 mg/l : 96 h			



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aquat	ity to daphnia and other ic invertebrates (Chron-	:		est Guideline 201 hnia dubia (water flea)): 13,020 mg/l
ic toxi Toxic	ity to microorganisms	:	NOEC (Pseudom Exposure time: 1	ionas putida): > 20,000 mg/l 8 h
Lactio	c acid:			
Toxic	ity to fish	:	Exposure time: 9 Method: OECD T	o (zebra fish)): > 100 mg/l 6 h est Guideline 203 on data from similar materials
	ity to daphnia and other ic invertebrates	:	Exposure time: 4 Method: OECD T	nagna (Water flea)): > 100 mg/l 8 h est Guideline 202 on data from similar materials
Toxici plants	ity to algae/aquatic	:	mg/l Exposure time: 7 Method: OECD T	rchneriella subcapitata (green algae)): > 100 2 h est Guideline 201 on data from similar materials
			mg/l Exposure time: 7 Method: OECD T	rchneriella subcapitata (green algae)): > 100 2 h est Guideline 201 on data from similar materials
Toxic	ity to microorganisms	:		
Persi	stence and degradabili	ity		
Com	oonents:			
	ylene glycol: gradability	:	Result: Readily b Biodegradation: Exposure time: 2 Method: OECD T	98.3 %
Lactio	c acid:			
Biode	gradability	:	Result: Not readil Remarks: Based	ly biodegradable. on data from similar materials





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Bioad	ccumulative potentia	al	
Com	ponents:		
Partit	ylene glycol: ion coefficient: n- ol/water	: log Pow: -1. Method: Re	07 gulation (EC) No. 440/2008, Annex, A.8
Lacti	c acid:		
	ion coefficient: n- ol/water	: log Pow: -0.	62
Mobi	lity in soil		
No da	ata available		
Othe	r adverse effects		
No da	ata available		

### Section 13: Disposal considerations

Disposal methods	
Waste from residues	: Do not dispose of waste into sewer. Dispose of in accordance with local regulations.
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

#### **International Regulations**

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

#### IMDG-Code



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Prope Class Subs Packi Label EmS	idiary risk ing group	<ul> <li>Not applicable</li> </ul>	
	sport in bulk accord	•	RPOL 73/78 and the IBC Code
Natio	onal Regulations		
UN r Prop Clas Subs	<b>5433</b> humber ber shipping name s sidiary risk king group	<ul> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable</li> </ul>	

Not applicable

Not applicable

:

:

### Special precautions for user

Not applicable

Hazchem Code

Labels

Section 15: Regulatory information

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

### **HSNO Approval Number**

HSR100759 Veterinary Medicines Non dispersive Open System Application Group Standard

### **HSW Controls**

Certified handler certificate not required. Tracking hazardous substance not required. Refer to the Health and Safety at Work (Hazardous Substances) Regulations 2017, for further information.

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

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

### Section 16: Other information

Revision Date	:	30.09.2023

#### **Further information**



Version 6.0	Revision Date: 30.09.2023		DS Number: 5437-00017	Date of last issue: 04.04.2023 Date of first issue: 28.06.2016	
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	compile the Safety Data		Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agen- cy, http://echa.europa.eu/		
Items where changes have been made to the previous version are highlighted in the body of the document by two vertical lines.				us version are highlighted in the body of this	
Date for	ormat	:	dd.mm.yyyy		
Full te	Full text of other abbreviations				
ACGIH NZ OE		:		eshold Limit Values (TLV) orkplace Exposure Standards for Atmospher-	
	I / C L / WES-TWA L / WES-Ceiling	: : :		sure Standard - Time Weighted average sure Standard - Ceiling	
AIIC -	Australian Inventory	of Ir	dustrial Chemical	s: ANTT - National Agency for Transport by	

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR -Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

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





Version	Revision Date:	SDS Number:	Date of last issue: 04.04.2023
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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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