# This SDS packet was issued with item: 078801778

The safety data sheets (SDS) in this packet apply to the individual products listed below. Please refer to invoice for specific item number(s).

078074070



Version 4.8	Revision Date: 10/01/2022	-	DS Number: 5439-00016	Date of last issue: 04/09/2022 Date of first issue: 06/28/2016		
SECTION	1. IDENTIFICATION					
Produ	lct name	:	Orbifloxacin Liq	uid Formulation		
Manu	facturer or supplier's	deta	ails			
Addre Telep Emerg			908-740-4000 1-908-423-6000	Avenue Iersey U.S.A. 07065		
Reco	mmended use of the c	chemical and restrictions on use				
	mmended use	:	: Veterinary product			
Restri	ictions on use	: Not applicable				
GHS ( 1910.	1200)	dan	ce with the OSH	IA Hazard Communication Standard (29 CFF		
Repro	oductive toxicity	:	Category 2			
	Specific target organ toxicity - repeated exposure (Oral)		Category 2 (Eye	e)		
GHS	label elements					
Hazar	rd 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	:	<ul> <li>Prevention:</li> <li>P201 Obtain special instructions before use.</li> <li>P202 Do not handle until all safety precautions have been read and understood.</li> <li>P260 Do not breathe mist or vapors.</li> <li>P280 Wear protective gloves, protective clothing, eye protection and face protection.</li> </ul>
		<b>Response:</b> P308 + P313 IF exposed or concerned: Get medical attention.
		Storage:

P405 Store locked up.



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		D	isposal:	
			-	contents and container to an approved waste
			sposal plant.	
Other	r hazards			
	known.			
ECTION	3. COMPOSITION/INF	ORMA	FION ON INGR	EDIENTS
Subst	tance / Mixture	: M	ixture	
	ponents			
	nical name		CAS-No.	Concentration (% w/w)
	lene glycol		57-55-6	>= 10 - < 20
	oxacin		113617-63-3	>= 1 - < 5
	n dioxide		7631-86-9	>= 1 - < 5
Lactic	c acid		50-21-5	>= 1 - < 5
O a alla	m hudrovido			
Actua	In hydroxide Il concentration is withh 4. FIRST AID MEASU		1310-73-2 a trade secret	>= 1 - < 2
Actua	I concentration is withh	RES : In ac	trade secret the case of act dvice immediate /hen symptoms	cident or if you feel unwell, seek medical
Actua	<b>4. FIRST AID MEASU</b> ral advice	RES : In ad M ad	the case of aco dvice immediate /hen symptoms dvice.	cident or if you feel unwell, seek medical ely. persist or in all cases of doubt seek medical
Actua	<b>4. FIRST AID MEASU</b> ral advice	RES : In ac X ac : If	the case of act dvice immediate /hen symptoms dvice. inhaled, remove	cident or if you feel unwell, seek medical ely. persist or in all cases of doubt seek medical e to fresh air.
Actua ECTION Gene If inha	<b>4. FIRST AID MEASU</b> ral advice	RES : In ac W ac : If G : In	the case of act dvice immediate /hen symptoms dvice. inhaled, remove et medical atter	cident or if you feel unwell, seek medical ely. persist or in all cases of doubt seek medical e to fresh air. ntion.
Actua ECTION Gene If inha	4. FIRST AID MEASU ral advice	RES : In ac W ac S C S C S C S C S C S C S C S C S C S	the case of act dvice immediate /hen symptoms dvice. inhaled, remove t medical atter case of contact water. emove contami et medical atter /ash clothing be	cident or if you feel unwell, seek medical ely. persist or in all cases of doubt seek medical e to fresh air. ntion. t, immediately flush skin with soap and plenty nated clothing and shoes. ntion.
Actua ECTION Gene If inha In cas	4. FIRST AID MEASU ral advice	RES : In ac W ac S C S C S C S C S C S C S C S C S C S	the case of act dvice immediate /hen symptoms dvice. inhaled, remove et medical atter case of contact water. emove contami et medical atter /ash clothing be horoughly clear ush eyes with v	cident or if you feel unwell, seek medical ely. persist or in all cases of doubt seek medical e to fresh air. ntion. et, immediately flush skin with soap and plenty nated clothing and shoes. ntion.
Actua ECTION Gene If inha In cas	4. FIRST AID MEASU ral advice aled se of skin contact	RES : In ac W ac : If G : In of R G W TI G C I f G G : If G	the case of activities of the case of activities immediate divice immediate divice. Inhaled, remove the medical atterned case of contactivities of contactivities and the case of contactivity and clothing be horoughly clear fush clothing be horoughly clear swallowed, DO et medical atter	cident or if you feel unwell, seek medical ely. persist or in all cases of doubt seek medical e to fresh air. ntion. t, immediately flush skin with soap and plenty nated clothing and shoes. ntion. ofore reuse. o shoes before reuse. vater as a precaution. ntion if irritation develops and persists. NOT induce vomiting.

delayed		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).
Notes to physician	:	Treat symptomatically and supportively.

### **SECTION 5. FIRE-FIGHTING MEASURES**

Suitable extinguishing media : Water spray Alcohol-resistant foam Carbon dioxide (CO2)



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	Unsuita	able extinguishing		Dry chemical None known.				
	media Specific hazards during fire		:		oustion products may be a hazard to health.			
	fighting Hazardous combustion prod- ucts		:	Carbon oxides Metal oxides				
	Specific extinguishing meth- ods		:	cumstances and t Use water spray t Remove undama so.	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			
		l protective equipment fighters	:	<ul> <li>Evacuate area.</li> <li>In the event of fire, wear self-contained breathing appara Use personal protective equipment.</li> </ul>				
SECTION 6. ACCIDENTAL RELE		AS	E MEASURES					
	tive equ	al precautions, protec- uipment and emer- procedures	:	Follow safe handl	tective equipment. ing advice (see section 7) and personal lent recommendations (see section 8).			
	Enviror	montal propositions	Augid release to the environment		he environment			

Environmental precautions	<ul> <li>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.</li> </ul>
Methods and materials for containment and cleaning up	<ul> <li>Soak up with inert absorbent material. For large spills, provide diking or other appropriate containment to keep material from spreading. If diked material can be pumped, store recovered material in appropriate container. Clean up remaining materials from spill with suitable absorbent. Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable. Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.</li> </ul>

### SECTION 7. HANDLING AND STORAGE

Technical measures	: See Engineering measures under EXPOSURE
	CONTROLS/PERSONAL PROTECTION section.
Local/Total ventilation	: Use only with adequate ventilation.
Advice on safe handling	: Do not breathe mist or vapors.
	Do not swallow.
	Avoid contact with eyes.
	Avoid prolonged or repeated contact with skin.



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		Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure assessment Take care to prevent spills, waste and minimize release to the environment.				
Conditions for safe storage		<ul> <li>Keep in properly labeled containers.</li> <li>Store locked up.</li> <li>Store in accordance with the particular national regulations.</li> </ul>				
Materials to avoid		<ul> <li>Do not store with the following product types:</li> <li>Strong oxidizing agents</li> <li>Gases</li> </ul>				

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis	
Propylene glycol	57-55-6	TWA	10 mg/m <sup>3</sup>	US WEEL	
Orbifloxacin	113617-63-3	TWA	0.2 mg/m3 (OEB 2)	Internal	
Silicon dioxide	7631-86-9	TWA (Dust)	20 Million particles per cubic foot (Silica)	OSHA Z-3	
		TWA (Dust)	80 mg/m3 / %SiO2 (Silica)	OSHA Z-3	
		TWA	6 mg/m³ (Silica)	NIOSH REL	
Sodium hydroxide	1310-73-2	С	2 mg/m <sup>3</sup>	ACGIH	
		С	2 mg/m <sup>3</sup>	NIOSH REL	
		TWA	2 mg/m <sup>3</sup>	OSHA Z-1	

#### Ingredients 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 equipment	
Respiratory protection :	General and local exhaust ventilation is recommended to maintain vapor exposures below recommended limits. Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn.

unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators. Protection provided by air purifying respirators against exposure to any hazardous chemical is limited. Use a positive pressure air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other



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Hand protection Material		circumstance where air purifying respirators may not provadequate protection. Chemical-resistant gloves				
Eye p	rotection	: Wear safety glasses with side shields or goggles. If the work environment or activity involves dusty conditions, mists or aerosols, wear the appropriate goggles. Wear a faceshield or other full face protection if there is a potential for direct contact to the face with dusts, mists, or aerosols				
Skin and body protection Hygiene measures		<ul> <li>potential for direct contact to the face with dusts, mists, or aerosols.</li> <li>Work uniform or laboratory coat.</li> <li>If exposure to chemical is likely during typical use, provide eye flushing systems and safety showers close to the working place.</li> <li>When using do not eat, drink or smoke.</li> <li>Wash contaminated clothing before re-use.</li> <li>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.</li> </ul>				

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	suspension
Color	:	light brown
Odor	:	odorless
Odor 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
Vapor pressure	:	No data available



## **Orbifloxacin Liquid Formulation**

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	e vapor density e density	:	No data available No data available			
Density	1	:	: No data available			
Solubili Wat	ity(ies) er solubility	:	No data available	9		
Partitio	n coefficient: n-	:	No data available	9		
	nition temperature	:	No data available	9		
Decom	position temperature	:	No data available	9		
Viscosi Visc	ty cosity, kinematic	:	No data available	9		
Explosi	ve properties	:	Not explosive			
	ng properties lar weight	:	The substance o	r mixture is not classified as oxidizing.		
Particle	e size	:	No data available	9		

### SECTION 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.

### SECTION 11. TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure

Inhalation Skin contact Ingestion Eye contact

### Acute toxicity

Not classified based on available information.

### Product:

Acute oral toxicity

: Acute toxicity estimate: > 5,000 mg/kg Method: Calculation method



ersion 8	Revision Date: 10/01/2022		9S Number: 5439-00016	Date of last issue: 04/09/2022 Date of first issue: 06/28/2016	
Acute inhalation toxicity		: Acute toxicity estimate: > 200 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: Calculation method			
<u>Comp</u>	onents:				
Propy	lene glycol:				
Acute	oral toxicity	:	LD50 (Rat): 22,00	00 mg/kg	
Acute	inhalation toxicity	:	LC50 (Rat): > 44. Exposure time: 4 Test atmosphere:	h	
Acute	dermal toxicity	:	LD50 (Rabbit): > Assessment: The toxicity	2,000 mg/kg substance or mixture has no acute derma	
Orbifle	oxacin:				
Acute	oral toxicity	:	LD50 (Rat): > 3,0 Remarks: No mor	00 mg/kg tality observed at this dose.	
			LD50 (Mouse): > Remarks: No mor	2,000 mg/kg tality observed at this dose.	
			LD50 (Dog): > 60 Symptoms: Vomit Remarks: No mor		
Acute	inhalation toxicity	:	Remarks: No data	a available	
Acute	dermal toxicity	:	Remarks: No data	a available	
	toxicity (other routes of istration)	:	LD50 (Rat): > 200 Application Route		
			LD50 (Mouse): 50 Application Route		
			LD50 (Rat): 233 r Application Route		
			LD50 (Mouse): 25 Application Route		
Silico	n dioxide:				
Acute	oral toxicity	:	LD50 (Rat): > 5,0 Method: OECD T		
Acute	Acute inhalation toxicity		LC50 (Rat): > 2.0 Exposure time: 4 Test atmosphere: Assessment: The	h	



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		tion toxicity
Acute	dermal toxicity	: LD50 (Rabbit): > 5,000 mg/kg
Lactio	c acid:	
Acute	oral toxicity	: LD50 (Rat): > 2,000 mg/kg Remarks: Based on data from similar materials
Acute	inhalation toxicity	<ul> <li>LC50 (Rat): &gt; 5 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403 Assessment: Corrosive to the respiratory tract. Remarks: Based on data from similar materials</li> </ul>
Acute	dermal toxicity	<ul> <li>LD50 (Rabbit): &gt; 2,000 mg/kg Assessment: The substance or mixture has no acute derma toxicity Remarks: Based on data from similar materials</li> </ul>
Sodiu	ım hydroxide:	
Acute	inhalation toxicity	: Assessment: Corrosive to the respiratory tract.
Skin o	es	ilable information. : Rabbit : No skin irritation
<b>Skin (</b> Not cl <b>Produ</b> Specie Resul	assified based on ava <u>uct:</u> es t	: Rabbit
Skin o Not cl Produ Specia Resul	assified based on ava <u>uct:</u> es t ponents:	: Rabbit
Skin o Not cl Produ Specia Resul	assified based on ava <u>uct:</u> es t p <u>onents:</u> ylene glycol:	: Rabbit
Skin o Not cl Produ Specie Resul Comp Propy	assified based on ava <u>uct:</u> es t <u>ponents:</u> ylene glycol: es od	: Rabbit : No skin irritation
Skin o Not cl Produ Specie Resul Comp Specie Metho Resul	assified based on ava <u>uct:</u> es t <u>ponents:</u> ylene glycol: es od	<ul> <li>Rabbit</li> <li>No skin irritation</li> <li>Rabbit</li> <li>OECD Test Guideline 404</li> </ul>
Skin o Not cl Produ Specia Resul Comp Propy Specia Metho Resul Orbifl Specia	assified based on ava <u>uct:</u> es t <b>ponents:</b> <b>ylene glycol:</b> es od t <b>loxacin:</b> es	<ul> <li>Rabbit</li> <li>No skin irritation</li> <li>Rabbit</li> <li>OECD Test Guideline 404</li> <li>No skin irritation</li> <li>Rabbit</li> </ul>
Skin o Not cl Produ Specia Resul Comp Propy Specia 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	<ul> <li>Rabbit</li> <li>No skin irritation</li> <li>Rabbit</li> <li>OECD Test Guideline 404</li> <li>No skin irritation</li> </ul>
Skin o Not cl Produ Specia Resul Comp Specia Metho Resul Specia 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	<ul> <li>Rabbit</li> <li>No skin irritation</li> <li>Rabbit</li> <li>OECD Test Guideline 404</li> <li>No skin irritation</li> <li>Rabbit</li> <li>Draize Test</li> </ul>
Skin o Not cl Produ Specie Resul Propy Specie Metho Resul OrbifI Specie Resul Specie 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 t <b>n dioxide:</b> es	<ul> <li>Rabbit</li> <li>No skin irritation</li> <li>Rabbit</li> <li>OECD Test Guideline 404</li> <li>No skin irritation</li> <li>Rabbit</li> <li>Draize Test</li> <li>No skin irritation</li> <li>Kabbit</li> <li>Rabbit</li> </ul>
Skin o Not cl Produ Specie Resul Propy Specie Metho Resul OrbifI Specie Resul	assified based on availant assified based on availant assified based on availant es ylene glycol: es bd t hoxacin: es bd t on dioxide: es bd	<ul> <li>Rabbit</li> <li>No skin irritation</li> <li>Rabbit</li> <li>OECD Test Guideline 404</li> <li>No skin irritation</li> <li>Rabbit</li> <li>Draize Test</li> <li>No skin irritation</li> </ul>
Skin o Not cl Produ Specia Resul Propy Specia Metho Resul Specia Resul Specia Resul Specia Resul	assified based on availant assified based on availant assified based on availant es ylene glycol: es bd t hoxacin: es bd t on dioxide: es bd	<ul> <li>Rabbit</li> <li>No skin irritation</li> <li>Rabbit</li> <li>OECD Test Guideline 404</li> <li>No skin irritation</li> <li>Rabbit</li> <li>Draize Test</li> <li>No skin irritation</li> <li>Rabbit</li> <li>OECD Test Guideline 404</li> </ul>
Skin o Not cl Produ Specia Resul Propy Specia Metho Resul Specia Resul Specia Resul Specia Resul	assified based on availant assified based on availant boom assified based on availant assified based on availant boom assified based on availant bo	<ul> <li>Rabbit</li> <li>No skin irritation</li> <li>Rabbit</li> <li>OECD Test Guideline 404</li> <li>No skin irritation</li> <li>Rabbit</li> <li>Draize Test</li> <li>No skin irritation</li> <li>Rabbit</li> <li>OECD Test Guideline 404</li> </ul>



rsion S	Revision Date: 10/01/2022	SDS Number:Date of last issue: 04/09/2022785439-00016Date of first issue: 06/28/2016				
Resul Rema	-	<ul><li>Corrosive after 1 to 4 hours of exposure</li><li>Based on data from similar materials</li></ul>				
Sodiu	um hydroxide:					
Resul	-	: Corrosive after 3 minutes or less of exposure				
Serio	us eye damage/eye	irritation				
Not cl	lassified based on ava	ailable information.				
Produ	uct:					
Speci Resul		: Rabbit : Mild eye irritation				
Com	oonents:					
Prop	ylene glycol:					
Speci	es	: Rabbit				
Resu		: No eye irritation				
Metho	bd	: OECD Test Guideline 405				
Orbif	loxacin:					
Speci		: Rabbit				
Resu		: Mild eye irritation				
Metho	bd	: Draize Test				
Silico	on dioxide:					
Speci		: Rabbit				
Resul		: No eye irritation				
Metho	bd	: OECD Test Guideline 405				
Laction	c acid:					
Speci		: Chicken eye				
Rema	arks	: Based on data from similar materials				
Resul	lt	: Irreversible effects on the eye				
Sodiı	um hydroxide:					
Resul	-	: Irreversible effects on the eye				
Rema	arks	: Based on skin corrosivity.				
Resp	iratory or skin sensi	itization				
-	sensitization lassified based on ava	ailable information.				
Resp	iratory sensitization					
Not cl	lassified based on ava	ailable information.				
Produ	uct:					
<b>T</b> = = 4 7	<b>T</b>					

Test Type

: Magnusson-Kligman-Test



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Route Speci Resul		: Dermal : Guinea pig : Not a skin se	nsitizer.
<u>Com</u>	oonents:		
Test 7	es of exposure	: Maximization : Skin contact : Guinea pig : negative	Test
Orbif	oxacin:	0	
Test	Type es of exposure es	: Maximization : Dermal : Guinea pig : Not a skin se	
Lactio	c acid:		
Test Route Speci Resul Rema	es of exposure es t	<ul> <li>Buehler Test</li> <li>Skin contact</li> <li>Guinea pig</li> <li>negative</li> <li>Based on date</li> </ul>	a from similar materials
Sodiu	ım hydroxide:		
Test∃ Route Resul	s of exposure	: Human repea : Skin contact : negative	at insult patch test (HRIPT)
Germ	cell mutagenicity		
	assified based on av	ailable information.	
<u>Comp</u>	oonents:		
	<b>/lene glycol:</b> toxicity in vitro	: Test Type: Ba Result: negat	acterial reverse mutation assay (AMES) ive
			hromosome aberration test in vitro CD Test Guideline 473 tive
Geno	toxicity in vivo	cytogenetic a Species: Mou	use oute: Intraperitoneal injection
Orbif	oxacin:		
Geno	toxicity in vitro	: Test Type: B	acterial reverse mutation assay (AMES)



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		Result: equivocal
		Test Type: Mouse Lymphoma Result: positive
		Test Type: Chromosomal aberration Test system: Human lymphocytes Result: positive
Genc	otoxicity in vivo	: Test Type: Micronucleus test Species: Mouse Cell type: Bone marrow Application Route: Intraperitoneal injection Result: negative
		Test Type: unscheduled DNA synthesis assay Species: Rat Cell type: Liver cells Application Route: Oral Result: negative
	n cell mutagenicity - ssment	: Weight of evidence does not support classification as a germ cell mutagen.
Silico	on dioxide:	
Geno	otoxicity in vitro	: Test Type: Bacterial reverse mutation assay (AMES) Method: OECD Test Guideline 471 Result: negative
Genc	otoxicity in vivo	: Test Type: Mutagenicity (in vivo mammalian bone-marrow cytogenetic test, chromosomal analysis) Species: Rat Application Route: Ingestion Result: negative
Lacti	c acid:	
Genc	otoxicity in vitro	<ul> <li>Test Type: Bacterial reverse mutation assay (AMES) Method: OECD Test Guideline 471 Result: negative Remarks: Based on data from similar materials</li> </ul>
		Test Type: In vitro mammalian cell gene mutation test Method: OECD Test Guideline 476 Result: negative Remarks: Based on data from similar materials
		Test Type: Chromosome aberration test in vitro Method: OECD Test Guideline 473 Result: negative Remarks: Based on data from similar materials

### Carcinogenicity

Not classified based on available information.



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Comp	onents:		
Propy	lene glycol:		
Specie	•••	: Rat	
	ation Route	: Ingestion	
	ure time	: 2 Years	
Result		: negative	
Orbifl	oxacin:		
Specie	es	: Rat	
Applic	ation Route	: Oral	
	ure time	: 2 Years	
NOAE	_	: 200 mg/kg boo	dy weight
Result		: negative	
Specie		: Mouse : Oral	
	ation Route ure time	: 2 Years	
NOAE		: 200 mg/kg boo	ty weight
Result		: negative	
Result		. nogutive	
	n dioxide:	_	
Specie		: Rat	
	ation Route	: Ingestion	
•	ure time	: 103 weeks	
Result		: negative	
Lactio	acid:		
Specie		: Rat	
	ation Route	: Ingestion	
•	ure time	: 2 Years	
Result		: negative	
Rema	rks	: Based on data	from similar materials
IARC			sent at levels greater than or equal to 0.1% is r confirmed human carcinogen by IARC.
OSHA	•	onent of this product pro 's list of regulated carci	esent at levels greater than or equal to 0.1% nogens.
NTP			sent at levels greater than or equal to 0.1% is ed carcinogen by NTP.
-	ductive toxicity cted of damaging t	he unborn child.	
Comp	onents:		
	lene glycol:		
Effects	s on fertility		o-generation reproduction toxicity study
		Species: Mous	
		Application Rc	oute: Ingestion



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			Result: negative		
Effec	Effects on fetal development		Species: Mouse	tion Route: Ingestion	
Orbi	floxacin:				
Effec	ts on fertility	:	Species: Rat Application Rou General Toxicity	/ Parent: NOAEL: 50 mg/kg body weight c Development: NOAEL: 50 mg/kg body	
Effec	ts on fetal development	:	Species: Rat Application Rou Embryo-fetal to Result: No terat	kicity.: LOAEL: 333 mg/kg body weight ogenic effects., Embryotoxic effects and on the offspring were detected only at high	
			Species: Rabbit Application Rou General Toxicity Embryo-fetal tox Result: No effect Embryotoxic effect	te: Oral / Maternal: NOAEL: 20 mg/kg body weight kicity.: NOAEL: 60 mg/kg body weight ets on early embryonic development., ects and adverse effects on the offspring weilt high maternally toxic doses, Reduced	
Repr sess	oductive toxicity - As- ment	:	Some evidence animal experime	of adverse effects on development, based o ents.	
Silic	on dioxide:				
Effec	Effects on fetal development		Test Type: Emb Species: Rat Application Rou Result: negative		
Lact	ic acid:				
Effec	ts on fetal development	:	Test Type: Emb Species: Mouse	ryo-fetal development	



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		Application Ro Result: negativ	
	-single exposure		
	assified based on av		
	-repeated exposure		
May c	ause damage to org	ans (Eye) through prole	onged or repeated exposure if swallowed.
<u>Produ</u>			
-	t Organs ssment		mage to organs through prolonged or repeate
		exposure.	
Repe	ated dose toxicity		
<u>Produ</u>			
Speci		: Dog	
NOAE LOAE		: 22.5 mg/kg : 37.5 mg/kg	
-	ation Route	: Oral	
	sure time	: 30 Days	
Symp		: Gastrointestina	al disturbance
Speci		: Dog	
LOAE	ation Route	: 75 mg/kg : Oral	
	sure time	: 10 Days	
Symp			strointestinal disturbance, Vomiting
Speci		: Cat	
LOAE		: 45 mg/kg	
	cation Route	: Oral	
	sure time t Organs	: 30 Days : Eye	
Symp			hrymation, Gastrointestinal disturbance, Liver
<b>e</b> yp		disorders	,
<u>Comp</u>	oonents:		
Propy	/lene glycol:		
Speci	es	: Rat, male	
NOAE		: >= 1,700 mg/k	g
	cation Route	: Ingestion	
Expos	sure time	: 2 y	
	loxacin:		
Speci		: Rat	
NOAE		: 20 mg/kg	
LOAE		: 80 mg/kg : Oral	
	cation Route sure time	: 3 Months	
	t Organs		(idney, spleen



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Spec	cies	: Mouse	
NOA		: 80 mg/kg	
LOA		: 250 mg/kg	
	ication Route	: Oral	
Expo	osure time	: 3 Months	
Spec		: Juvenile dog	
NOA		: 50 mg/kg	
LOA		: 250 mg/kg	
	ication Route	: Oral : 14 Days	
	et Organs	: Heart, Bone	
	ptoms		al disturbance
Rem		: mortality obse	
Spec	cies	: Juvenile dog	
NOA	EL	: 2 mg/kg	
LOA		: 3 mg/kg	
	ication Route	: Oral	
	osure time	: 90 Days	
	et Organs	: Bone	a dua na affa sta una na anta d
Rem	arks	: No significant	adverse effects were reported
Spec		: Dog	
NOA		: 37.5 mg/kg	
	ication Route	: Oral	
Expo	osure time	: 30 Days	
Spec		: Cat	
NOA		: 7.5 mg/kg	
LOA		: 22.5 mg/kg	
	ication Route	: Oral	
•	osure time	: 1 Months	aldisturbance
Sym	ptoms	. Gastrointestin	al disturbance
Silic	on dioxide:		
Spec	cies	: Rat	
NOA		: 1.3 mg/m <sup>3</sup>	
	ication Route	: inhalation (du	st/mist/fume)
Expo	osure time	: 13 Weeks	
Lact	ic acid:		
Spec		: Rat	
NOA		: > 100  mg/kg	
-	ication Route	: Ingestion	
	osure time	: 13 Weeks	
Rem		: Based on data	a from similar materials
Spec		: Rat	
LOA		: 886 mg/kg	
	ication Route	: Skin contact	
Expo	osure time	: 13 Weeks	





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	spiration toxicity			
	ot classified based on availa <b>xperience with human exp</b>			
		050		
	omponents:			
-	rbifloxacin: gestion	:	disturbance, liver	al nervous system effects, Gastrointestinal function change, anaphylaxis, Rash use photosensitization.
SECTI	ON 12. ECOLOGICAL INFO	DRN	IATION	
Ec	cotoxicity			
<u>C</u>	omponents:			
Pr	opylene glycol:			
Тс	oxicity to fish	:	LC50 (Oncorhyno Exposure time: 96	hus mykiss (rainbow trout)): 40,613 mg/l ን h
	oxicity to daphnia and other quatic invertebrates	:	EC50 (Ceriodaph Exposure time: 48	nia dubia (water flea)): 18,340 mg/l 3 h
	oxicity to algae/aquatic ants	:	ErC50 (Skeletone Exposure time: 72 Method: OECD T	
ac	oxicity to daphnia and other quatic invertebrates (Chron-	:	NOEC (Ceriodapl Exposure time: 7	nnia dubia (water flea)): 13,020 mg/l d
	toxicity) oxicity to microorganisms	:	NOEC (Pseudom Exposure time: 18	onas putida): > 20,000 mg/l 3 h
Si	licon dioxide:			
Тс	oxicity to fish	:	LC50 (Danio reric Exposure time: 90 Method: OECD T	
	oxicity to daphnia and other quatic invertebrates	:	EC50 (Daphnia m Exposure time: 24 Method: OECD T	
	oxicity to algae/aquatic ants	:	mg/l Exposure time: 72 Method: OECD T	
			mg/l Exposure time: 72 Method: OECD T	smus subspicatus (green algae)): 10,000 2 h est Guideline 201 on data from similar materials



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Lactic acid: Toxicity to fish		:	Exposure time: 96		
				on data from similar materials	
Toxicity to daphi aquatic inverteb		:	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 plants	/aquatic	:	mg/l Exposure time: 72 Method: OECD T		
			mg/l Exposure time: 72 Method: OECD T		
Toxicity to microorganisms		:	EC50: > 10 - 100 mg/l Exposure time: 3 h Method: OECD Test Guideline 209 Remarks: Based on data from similar materials		
Persistence and	d degradabilit	y			
Components:					
Propylene glyc Biodegradability		:	Result: Readily bi Biodegradation: 9 Exposure time: 28 Method: OECD T	98.3 %	
Lactic acid: Biodegradability		:	Result: Not readily biodegradable. Remarks: Based on data from similar materials		
Bioaccumulativ	ve potential				
Components:					
Propylene glyc Partition coefficio octanol/water		:		on (EC) No. 440/2008, Annex, A.8	



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	ion coefficient: n- ol/water	: log Pow: -0.62		
	l <b>ity in soil</b> ata available			
	r <b>adverse effects</b> ata available			
SECTION	13. DISPOSAL CON	SIDERATIONS		
•	osal methods			

Waste from residues	:	Dispose of in accordance with local regulations.
Contaminated packaging	:	Empty containers should be taken to an approved waste
		handling site for recycling or disposal.
		If not otherwise specified: Dispose of as unused product.

### **SECTION 14. TRANSPORT INFORMATION**

### International Regulations

#### UNRTDG

Not regulated as a dangerous good

#### IATA-DGR

Not regulated as a dangerous good

#### IMDG-Code

Not regulated as a dangerous good

### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

#### **Domestic regulation**

**49 CFR** Not regulated as a dangerous good

### Special precautions for user

Not applicable

### **SECTION 15. REGULATORY INFORMATION**

#### **CERCLA Reportable Quantity**

Components	CAS-No.	Component RQ	Calculated product RQ
		(lbs)	(lbs)
Sodium hydroxide	1310-73-2	1000	100000

### SARA 304 Extremely Hazardous Substances Reportable Quantity

:

This material does not contain any components with a section 304 EHS RQ.

### SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

#### SARA 311/312 Hazards

Reproductive toxicity Specific target organ toxicity (single or repeated exposure)

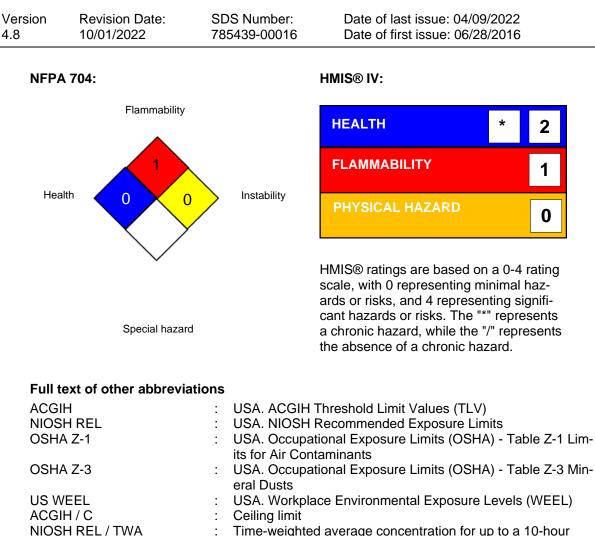


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SAR	A 313	known CAS	al does not contain any che numbers that exceed the vels established by SARA	threshold (De Minimis)
US S	tate Regulations			
Penn	sylvania Right To Kno	ow		
	Water Malt Extract 2-Propenoic acid, propenoate	2-methyl-, polyme	r with methyl 2-methyl-2-	7732-18-5 8002-48-0 25086-15-1
	Propylene glycol Orbifloxacin Silicon dioxide			57-55-6 113617-63-3 7631-86-9
Calif	Sodium hydroxide			1310-73-2
Calif	ornia List of Hazardou Silicon dioxide Sodium hydroxide			7631-86-9 1310-73-2
Califo	ornia Permissible Exp	osure Limits for	Chemical Contaminants	
	Silicon dioxide Sodium hydroxide			7631-86-9 1310-73-2
The i	ngredients of this pro	duct are reported	d in the following invento	ories:
AICS		: not determir	ned	
DSL		: not determir	ned	
IECS	С	: not determir	ned	

### **SECTION 16. OTHER INFORMATION**

Further information





	•	
NIOSH REL / TWA	:	Time-weighted average concentration for up to a 10-hou
		workday during a 40-hour workweek
NIOSH REL / C	:	Ceiling value not be exceeded at any time.
OSHA Z-1 / TWA	:	8-hour time weighted average

OSHA Z-1 / TWA	:	8-hour time weighted average
OSHA Z-3 / TWA	:	8-hour time weighted average
US WEEL / TWA	:	8-hr TWA

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; 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; HMIS - Hazardous Materials Identification System; 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; MSHA - Mine Safety and Health Administration; n.o.s. - Not Oth-



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erwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; 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; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; 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

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

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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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