



Version 1.13	Revision Date: 28.09.2024		S Number: 32577-00014	Date of last issue: 30.09.2023 Date of first issue: 05.06.2017		
SECTION 1. IDENTIFICATION						
Prod	uct name	:	Moxifloxacin Liq	uid Formulation		
Man	ufacturer or supplier's	s deta	ils			
Com	Company		MSD	MSD		
Address		:	855 Leandro N. Alem St., 8 Floor Buenos Aires, Argentina C1001AFB			
Tele	Telephone		908-740-4000			
Eme	Emergency telephone		1-908-423-6000			
E-ma	E-mail address		EHSDATASTEWARD@msd.com			
Reco	ommended use of the	chem	ical and restriction	ons on use		
Recommended use : Restrictions on use :		Pharmaceutical Not applicable				

### **SECTION 2. HAZARDS IDENTIFICATION**

### **GHS Classification**

Not a hazardous substance or mixture.

### **GHS** label elements

No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required.

## 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)
Moxifloxacin HCL	186826-86-8	>= 0,1 -<= 0,2

### **SECTION 4. FIRST AID MEASURES**

General advice	: In the case of accident or if you feel unwell, seek medical advice 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



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		of water.					
		Get medical att	ninated clothing and shoes.				
		Wash clothing					
		0	an shoes before reuse.				
In cas	se of eye contact						
mout	be of eye bornabl	: Flush eyes with water as a precaution. Get medical attention if irritation develops and persists.					
If swa	allowed		O NOT induce vomiting.				
		Get medical att	0				
		Rinse mouth th	oroughly with water.				
Most	important symptoms	: None known.					
and e delay	ffects, both acute and ed						
Prote	ction of first-aiders	<ul> <li>First Aid responders should pay attention to self-protect and use the recommended personal protective equipm when the potential for exposure exists (see section 8).</li> </ul>					
Notes	s to physician	: Treat symptom	atically and supportively.				

# SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	:	Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical
Unsuitable extinguishing media	:	None known.
Specific hazards during fire fighting	:	Exposure to combustion products may be a hazard to health.
Hazardous combustion prod- ucts	:	No hazardous combustion products are known
Specific extinguishing meth- ods	:	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. Evacuate area.
Special protective equipment for fire-fighters	:	In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.

# SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- tive equipment and emer- gency procedures	:	Use personal protective equipment. Follow safe handling advice (see section 7) and personal protective equipment recommendations (see section 8).
Environmental precautions	:	Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Prevent spreading over a wide area (e.g., by containment or oil barriers).



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		•	se of contaminated wash water. should be advised if significant spillages ned.
	ds and materials for ament and cleaning up	For large spills, p containment to ke can be pumped, container. Clean up remaini absorbent. Local or national disposal of this m employed in the determine which Sections 13 and	rt absorbent material. rrovide diking or other appropriate eep material from spreading. If diked material store recovered material in appropriate ng materials from spill with suitable regulations may apply to releases and naterial, as well as those materials and items cleanup of releases. You will need to regulations are applicable. 15 of this SDS provide information regarding ational requirements.

## SECTION 7. HANDLING AND STORAGE

Technical measures	:	See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.
Local/Total ventilation Advice on safe handling		Use only with adequate ventilation. Avoid inhalation of vapor or mist. 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 assessment Take care to prevent spills, waste and minimize release to the environment.
Conditions for safe storage	:	Keep in properly labeled containers. Store in accordance with the particular national regulations.
Materials to avoid	:	Do not store with the following product types: Strong oxidizing agents Gases

# SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Moxifloxacin HCL	186826-86-8	TWA	1000 µg/m3 (OEB 1)	Internal

**Engineering measures** : Use appropriate engineering controls and manufacturing technologies to control airborne concentrations (e.g., dripless quick connections). All engineering controls should be implemented by facility



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		protect prod	operated in accordance with GMP principles to ucts, workers, and the environment. perations do not require special containment.				
Pers	onal protective equip	nent					
Fi	Respiratory protection Filter type		<ul> <li>If adequate local exhaust ventilation is not available or exposure assessment demonstrates exposures outside the recommended guidelines, use respiratory protection.</li> <li>Particulates type</li> </ul>				
	l protection aterial	: Chemical-re	: Chemical-resistant gloves				
Eye ç	protection	If the work e mists or aero Wear a face	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.				
	and body protection ene measures	<ul> <li>Work uniform</li> <li>If exposure the eye flushing working place</li> <li>When using</li> <li>Wash contain</li> <li>The effective engineering</li> <li>appropriate endustrial hypering</li> </ul>	Work uniform or laboratory coat. 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.				

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	liquid
Color	:	yellow
Odor	:	odorless
Odor Threshold	:	No data available
рН	:	4,1 - 4,6
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

# SAFETY DATA SHEET



# Moxifloxacin Liquid Formulation

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		explosion limit / Upper bility limit	:	No data available	
		explosion limit / Lower bility limit	:	No data available	
	Vapor p	pressure	:	No data available	)
	Relative	e vapor density	:	No data available	)
	Relative	e density	:	No data available	)
	Density	,	:	1,0044 g/cm <sup>3</sup> (20	°C)
	Solubili Wat	ty(ies) er solubility	:	slightly soluble	
	Partitio octanol	n coefficient: n-	:	No data available	)
		nition temperature	:	No data available	)
	Decom	position temperature	:	No data available	)
	Viscosi Visc	ty cosity, kinematic	:	No data available	3
	Explosi	ve properties	:	Not explosive	
	Oxidizir	ng properties	:	The substance or	mixture is not classified as oxidizing.
	Molecu	lar weight	:	No data available	
	Particle Particle	e characteristics e size	:	No data available	

## SECTION 10. STABILITY AND REACTIVITY

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

## SECTION 11. TOXICOLOGICAL INFORMATION

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

# SAFETY DATA SHEET



# Moxifloxacin Liquid Formulation

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Not c	e toxicity lassified based on ava ponents:	ailable informatior	l.			
Moxi	floxacin HCL:					
Acute	e oral toxicity	: LD50 (Rat	t): 1.320 mg/kg			
		LD50 (Mo	LD50 (Mouse): > 435 mg/kg			
		LD50 (Mo	LD50 (Monkey): 1.500 mg/kg			
-	corrosion/irritation lassified based on ava	ailable informatior				
Com	ponents:					
<b>Moxi</b> Spec Resu		: Rabbit : No skin irr	itation			
Not c <u>Com</u>	ous eye damage/eye lassified based on ava ponents: floxacin HCL:					
<b>Moxi</b> Spec		: Rabbit				
Resu	lt	: Moderate	eye irritation			
Resp	iratory or skin sens	tization				
•••••	sensitization lassified based on ava	ailable informatior	I.			
-	<b>iratory sensitization</b> lassified based on ava					
Germ	n cell mutagenicity					
	lassified based on ava ponents:	ailable information				
	floxacin HCL:					
-	otoxicity in vitro	: Test Type Result: po	: Bacterial reverse mutation assay (AMES) sitive			
		Test Type Result: ne	: Chromosome aberration test in vitro			
		Test Type Result: ne	: In vitro mammalian cell gene mutation test gative			
		Test Type Result: ne	: in vitro micronucleus test gative			



rsion  3	Revision Date: 28.09.2024		9S Number: 32577-00014	Date of last issue: 30.09.2023 Date of first issue: 05.06.2017
Geno	toxicity in vivo	:	Test Type: Mam cytogenetic assa Application Rout Result: negative	e: Oral
	nogenicity assified based on avai	lable	information.	
Repro	oductive toxicity			
-	assified based on avail	lable	information.	
<u>Comp</u>	oonents:			
Moxif	loxacin HCL:			
Effect	s on fertility	:	Species: Rat Application Rout	: 500 mg/kg body weight
Effect	s on fetal development	: :	Species: Monke Application Rout	ie: Oral Foxicity: NOAEL: 10 mg/kg body weight
			Species: Rabbit Application Rou Developmental	ryo-fetal development te: Intravenous injection Foxicity: LOAEL: 20 mg/kg body weight etal malformations.
Repro sessn	oductive toxicity - As- nent	:	Some evidence animal experime	of adverse effects on development, based o
	-single exposure			
	assified based on avai	lable	information.	
	-repeated exposure assified based on avail	lahle	information	
	oonents:			
	loxacin HCL:			
Targe	toxacin HCL: to Organs ssment	:	Liver May cause dam exposure.	age to organs through prolonged or repeated
Repe	ated dose toxicity			
-	oonents:			
	loxacin HCL:			
-		:	Rat	
Speci	es	:	Rat 7 / 11	



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LOAE	EL	: 100 mg/kg
Appli	cation Route	: Oral
Expo	sure time	: 4 Weeks
Spec		: Rat
NOAI		: 100 mg/kg
	cation Route	: Oral
	sure time	: 13 Weeks
•	et Organs	: Liver
Symp	noms	: Liver disorders
Spec		: Rat
NOA		: 20 mg/kg
	cation Route	: Oral
	sure time	: 6 Months : Liver
Symp	et Organs	: Liver disorders
Symp	101115	
Spec		: Monkey
NOAI		: 50 mg/kg
	cation Route	: Oral
	sure time	: 4 Weeks
Symp	otoms	: No adverse effects.
Spec	ies	: Monkey
NOAI		: 15 mg/kg
	cation Route	: Oral
	sure time	: 13 Weeks
	et Organs	: Gastrointestinal tract
Symp	otoms	: Vomiting
Spec		: Monkey
	cation Route	: Oral
	sure time	: 26 Weeks
	et Organs	: Liver
Symp	otoms	: Liver disorders
Aspii	ration toxicity	
Not c	lassified based on ava	ilable information.
Expe	rience with human e	(posure
Com	nonante:	

## **Components:**

Moxifloxacin	HCL:
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Ingestion

: Symptoms: Nausea, Abdominal pain, Headache, Dizziness, central nervous system effects, joint pain

### **SECTION 12. ECOLOGICAL INFORMATION**

#### Ecotoxicity

No data available Persistence and degradability No data available



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	oaccumulative potential			
	<b>obility in soil</b> o data available			
•••	her adverse effects o data available			
SECTIO	ON 13. DISPOSAL CONSI	DERATIONS		
Di	sposal methods			
Wa	aste from residues		pose of waste into sewer. f in accordance with local regulations.	
Co	ontaminated packaging	<ul> <li>Empty containers should be taken to an approved waste handling site for recycling or disposal.</li> <li>If not otherwise specified: Dispose of as unused product.</li> </ul>		
SECTIO	ON 14. TRANSPORT INFO	RMATION		
Int	ternational Regulations			
•.	NRTDG ot regulated as a dangerous	s good		
	TA-DGR ot regulated as a dangerous	s good		
	DG-Code ot regulated as a dangerous	s good		
Tr	ansport in bulk according	to Annex II of	f MARPOL 73/78 and the IBC Code	

Not applicable for product as supplied.

# Special precautions for user

Not applicable

# **SECTION 15. REGULATORY INFORMATION**

Safety, health and environmental regulations/legislation specific for the substance or mixture				
Argentina. Carcinogenic Subs Registry.	: Not applicable			
Control of precursors and essential chemicals for the : Not applicable preparation of drugs.				
The ingredients of this product are reported in the following inventories:				
AICS	: not determined			
DSL	: not determined			
IECSC	: not determined			



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

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#### Further information

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

#### Full text of other abbreviations

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 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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