

SDS Number: 641542-00020	Date of last issue: 30.09.2023 Date of first issue: 27.04.2016				
SECTION 1. IDENTIFICATION					
: Enrofloxacin (2	Enrofloxacin (2.5%) Formulation				
<b>'s details</b> : MSD					
	Talcahuano 750, 6th floor, Ciudad Autonoma Buenos Aires, Argentina C1013AAP				
: 908-740-4000					
: 1-908-423-600	00				
: EHSDATASTE	EWARD@msd.com				
e chemical and restric					
: Veterinary pro : Not applicable					
	<ul> <li>Enrofloxacin (2)</li> <li>Enrofloxacin (2)</li> <li>Enrofloxacin (2)</li> <li>S details <ol> <li>MSD</li> <li>Talcahuano 79</li> <li>Buenos Aires,</li> <li>908-740-4000</li> <li>1-908-423-600</li> <li>EHSDATASTE</li> </ol> </li> <li>Ehemical and restriction</li> <li>Veterinary pro</li> </ul>				

### SECTION 2. HAZARDS IDENTIFICATION

GHS Classification Skin sensitization	:	Category 1
Specific target organ toxicity - repeated exposure	:	Category 2 (cartilage, Testis)
Short-term (acute) aquatic hazard	:	Category 1
Long-term (chronic) aquatic hazard	:	Category 1
GHS label elements Hazard pictograms	:	
Signal Word	:	Warning
Hazard Statements	:	H317 May cause an allergic skin reaction. H373 May cause damage to organs (cartilage, Testis) through prolonged or repeated exposure. H410 Very toxic to aquatic life with long lasting effects.
Precautionary Statements	:	Prevention:



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		P272 Contamir the workplace.	reathe mist or vapors. nated work clothing should not be allowed out of ease to the environment. tective gloves.
		P314 Get medi P333 + P313 If vice/ attention.	F ON SKIN: Wash with plenty of water. cal advice/ attention if you feel unwell. skin irritation or rash occurs: Get medical ad- ake off contaminated clothing and wash it before billage.
		<b>Disposal:</b> P501 Dispose o disposal plant.	of contents/ container to an approved waste

# 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)
Enrofloxacin			93106-60-6	>= 2,5 -< 3
Benzyl alcohol			100-51-6	>= 1 -< 5

#### **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 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 Protection of first-aiders	:	May cause an allergic skin reaction. May cause damage to organs through prolonged or repeated exposure. First Aid responders should pay attention to self-protection,





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	Notes t	o physician	:	when the potentia	nmended personal protective equipment I for exposure exists (see section 8). cally and supportively.
SEC	TION 5	. FIRE-FIGHTING ME	ASL	IRES	
	Suitabl	e extinguishing media	:	Water spray Alcohol-resistant f Carbon dioxide (C Dry chemical	
	Unsuita media	able extinguishing	:	None known.	
	Specific fighting	c hazards during fire	:	Exposure to comb	oustion products may be a hazard to health.
	Hazard ucts	lous combustion prod-	:	Carbon oxides	
	Specific ods	c extinguishing meth-	:	cumstances and t Use water spray t	measures that are appropriate to local cir- he surrounding environment. o cool unopened containers. ged containers from fire area if it is safe to do
		l protective equipment fighters	:	In the event of fire Use personal prot	e, wear self-contained breathing apparatus. ective 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). Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained.
Methods and materials for : containment and cleaning up	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



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		determine whic Sections 13 an	e cleanup of releases. You will need to th regulations are applicable. d 15 of this SDS provide information regarding national requirements.
SECTION	7. HANDLING AND ST	ORAGE	
Tech	nical measures		ng measures under EXPOSURE ERSONAL PROTECTION section.
Local	/Total ventilation		adequate ventilation.
Advic	e on safe handling	Do not swallow Avoid contact w Wash skin thor Handle in acco practice, based assessment Do not eat, drir	mist or vapors.
Cond	litions for safe storage		ly labeled containers. lance with the particular national regulations.
Mate	rials to avoid	: Do not store wi Strong oxidizin	th the following product types: g agents ubstances and mixtures

#### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Ingredients with workplace control parameters

ampapanta	CAS No		Control poromo	Decie
Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Enrofloxacin	93106-60-6	TWA	0.2 mg/m3 (OEB 2)	Internal
Engineering measures	technologies	to control airbor	controls and manufacine concentrations (e.	
	design and op protect produ	ng controls shou perated in accor cts, workers, ar	ld be implemented by rdance with GMP prin id the environment. require special conta	ciples to
Personal protective equipme	All engineerin design and op protect produ Laboratory op	ng controls shou perated in accor cts, workers, ar	dance with GMP prine	ciples to
<b>Personal protective equipme</b> Respiratory protection	All engineerir design and op protect produ Laboratory op ent If adequate lo exposure ass	ng controls shou perated in accor cts, workers, ar perations do not perations do not perations do not	dance with GMP prine	ciples to inment. e or itside the



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	protection aterial	: Chemical-res	istant gloves
Eye protection		If the work en mists or aeros Wear a faces potential for c aerosols.	plasses with side shields or goggles. vironment or activity involves dusty conditions, sols, wear the appropriate goggles. hield or other full face protection if there is a lirect contact to the face with dusts, mists, or
	and body protection ene measures	: If exposure to eye flushing s working place When using o Contaminated workplace. Wash contam The effective engineering o appropriate d industrial hyg	or laboratory coat. o chemical is likely during typical use, provide systems and safety showers close to the b. do not eat, drink or smoke. d work clothing should not be allowed out of the hinated clothing before re-use. operation of a facility should include review of controls, proper personal protective equipment, egowning and decontamination procedures, iene monitoring, medical surveillance and the strative controls.

#### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	liquid
Color	:	No data available
Odor	:	No data available
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

### SAFETY DATA SHEET



### Enrofloxacin (2.5%) Formulation

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	Relative	e vapor density	:	No data available	9
	Relative	e density	:	No data available	9
	Density	,	:	No data available	9
	Solubili Wat	ty(ies) er solubility	:	No data available	9
		n coefficient: n-	:	Not applicable	
	octanol Autoign	/water iition temperature	:	No data available	9
	Decom	position temperature	:	No data available	9
	Viscosi Visc	ty osity, kinematic	:	No data available	9
	Explosi	ve properties	:	Not explosive	
	Oxidizir	ng properties	:	The substance o	r mixture is not classified as oxidizing.
	Particle Particle	characteristics size	:	Not applicable	

### 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
exposure		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
Acute dermal toxicity	:	Acute toxicity estimate: > 5.000 mg/kg Method: Calculation method



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<u>Comp</u>	onents:			
Enrofl	oxacin:			
Acute	oral toxicity	:	LD50 (Rabbit):	500 - 800 mg/kg
			LD50 (Rat): >	5.000 mg/kg
			LD50 (Mouse)	: > 5.000 mg/kg
Acute	dermal toxicity	:	LD50 (Rabbit):	> 2.000 mg/kg
Benzv	l alcohol:			
	oral toxicity	:	LD50 (Rat): 1.2	200 mg/kg
Acute	inhalation toxicity	:		:4h
<u>Comp</u>	assified based on ava onents: oxacin:	ilable :	Information.	n
		-		
	l alcohol:		Dabbit	
Specie Metho		:	Rabbit OECD Test Gu	uideline 404
Result		:	No skin irritatio	
Not cla	us eye damage/eye i assified based on ava onents:			
Enrofl	oxacin:			
Result		:	Mild eye irritati	on
Benzy	l alcohol:			
Specie		:	Rabbit	
opoor		:	Irritation to eye	es, reversing within 21 days
Result			OECD Test Gu	uideline 405

### Skin sensitization

May cause an allergic skin reaction.

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Respi	iratory sensitizatio	n	
	assified based on av		
Comp	oonents:		
	loxacin:		
Test T		: Maximization	Fost
	s of exposure	: Dermal	
Speci	es	: Guinea pig	
Resul	t	: Not a skin sen	sitizer.
Benzy	yl alcohol:		
Test T	Гуре		insult patch test (HRIPT)
	s of exposure	: Skin contact	
Speci Resul		: Humans : positive	
		·	
Asses	sment	rate in humans	evidence of low to moderate skin sensitization
	assified based on av ponents:	vailable information.	
<u>Comp</u> Enrof	oonents: Ioxacin:		romosomal aberration
<u>Comp</u> Enrof	oonents:		romosomal aberration e
Comp Enrof Genot	oonents: Ioxacin:	: Test Type: Ch Result: positive : Test Type: Mic	e cronucleus test
Comp Enrof Genot	oonents: loxacin: toxicity in vitro	: Test Type: Ch Result: positive : Test Type: Mic Species: Mous	e cronucleus test se
Comp Enrof Genot	oonents: loxacin: toxicity in vitro	: Test Type: Ch Result: positive : Test Type: Mic Species: Mous Result: negative	e cronucleus test se ve
Comp Enrof Genot	oonents: loxacin: toxicity in vitro	: Test Type: Ch Result: positive : Test Type: Mic Species: Mous Result: negative Test Type: Ma	e cronucleus test se
Comp Enrof Genot	oonents: loxacin: toxicity in vitro	: Test Type: Ch Result: positive : Test Type: Mic Species: Mous Result: negative	e cronucleus test se ve mmalian bone marrow sister chromatid ex-
Comp Enrof Genot	oonents: loxacin: toxicity in vitro	: Test Type: Ch Result: positive : Test Type: Mic Species: Mous Result: negative Test Type: Ma change	e cronucleus test se ve mmalian bone marrow sister chromatid ex- ster
Comp Enrof Genot	oonents: loxacin: toxicity in vitro	<ul> <li>Test Type: Ch Result: positive</li> <li>Test Type: Mid Species: Mous Result: negative</li> <li>Test Type: Ma change Species: Hames Result: negative</li> </ul>	e cronucleus test se ve mmalian bone marrow sister chromatid ex- ster ve
Comp Enrof Genot	oonents: loxacin: toxicity in vitro	<ul> <li>Test Type: Ch Result: positive</li> <li>Test Type: Mid Species: Mous Result: negative</li> <li>Test Type: Ma change Species: Hames Result: negative</li> <li>Test Type: Ch Species: Rat</li> </ul>	e cronucleus test se /e mmalian bone marrow sister chromatid ex- ster /e romosomal aberration
Comp Enrof Genot	oonents: loxacin: toxicity in vitro	<ul> <li>Test Type: Ch Result: positive</li> <li>Test Type: Mid Species: Mous Result: negative</li> <li>Test Type: Ma change Species: Hams Result: negative</li> </ul>	e cronucleus test se /e mmalian bone marrow sister chromatid ex- ster /e romosomal aberration
Comp Enrof Genot	<b>Donents:</b> <b>Ioxacin:</b> toxicity in vitro toxicity in vivo	<ul> <li>Test Type: Ch Result: positive</li> <li>Test Type: Mid Species: Mous Result: negative</li> <li>Test Type: Ma change Species: Hames Result: negative</li> <li>Test Type: Ch Species: Rat</li> </ul>	e cronucleus test se /e mmalian bone marrow sister chromatid ex- ster /e romosomal aberration
Comp Enrof Genot Genot	vonents: loxacin: toxicity in vitro toxicity in vivo	<ul> <li>Test Type: Ch Result: positive</li> <li>Test Type: Mid Species: Mous Result: negative</li> <li>Test Type: Ma change Species: Hama Result: negative</li> <li>Test Type: Ch Species: Rat Result: negative</li> </ul>	e cronucleus test se /e mmalian bone marrow sister chromatid ex- ster /e romosomal aberration /e
Comp Enrof Genot Genot	<b>Donents:</b> <b>Ioxacin:</b> toxicity in vitro toxicity in vivo	<ul> <li>Test Type: Ch Result: positive</li> <li>Test Type: Mid Species: Mous Result: negative</li> <li>Test Type: Ma change Species: Hama Result: negative</li> <li>Test Type: Ch Species: Rat Result: negative</li> </ul>	e cronucleus test se /e mmalian bone marrow sister chromatid ex- ster /e romosomal aberration /e cterial reverse mutation assay (AMES)
Comp Enrof Genot Genot Benzy Genot	vonents: loxacin: toxicity in vitro toxicity in vivo	<ul> <li>Test Type: Ch Result: positive</li> <li>Test Type: Mid Species: Mous Result: negative</li> <li>Test Type: Ma change Species: Hama Result: negative</li> <li>Test Type: Ch Species: Rat Result: negative</li> <li>Test Type: Ch Species: Rat Result: negative</li> </ul>	e cronucleus test se /e mmalian bone marrow sister chromatid ex- ster /e romosomal aberration /e cterial reverse mutation assay (AMES) /e
Comp Enrof Genot Genot Benzy Genot	bonents: loxacin: toxicity in vitro toxicity in vivo yl alcohol: toxicity in vitro	<ul> <li>Test Type: Ch Result: positive</li> <li>Test Type: Mid Species: Mous Result: negative</li> <li>Test Type: Ma change Species: Hams Result: negative</li> <li>Test Type: Ch Species: Rat Result: negative</li> <li>Test Type: Bas Result: negative</li> <li>Test Type: Bas Result: negative</li> <li>Test Type: Ma cytogenetic as</li> </ul>	e cronucleus test se /e mmalian bone marrow sister chromatid ex- ster /e romosomal aberration /e cterial reverse mutation assay (AMES) /e mmalian erythrocyte micronucleus test (in vive say)
Comp Enrof Genot Genot Benzy Genot	bonents: loxacin: toxicity in vitro toxicity in vivo yl alcohol: toxicity in vitro	<ul> <li>Test Type: Ch Result: positive</li> <li>Test Type: Mid Species: Mous Result: negative</li> <li>Test Type: Ma change Species: Hame Result: negative</li> <li>Test Type: Ch Species: Rat Result: negative</li> <li>Test Type: Bar Result: negative</li> <li>Test Type: Bar Result: negative</li> <li>Test Type: Ma cytogenetic as Species: Mous</li> </ul>	e cronucleus test se /e mmalian bone marrow sister chromatid ex- ster /e romosomal aberration /e cterial reverse mutation assay (AMES) /e mmalian erythrocyte micronucleus test (in vive say)

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Version 6.0	Revision Date: 28.09.2024		9S Number: 1542-00020	Date of last issue: 30.09.2023 Date of first issue: 27.04.2016
	<b>inogenicity</b> classified based on availa	blo	information	
	ponents:	DIE	iniomation.	
Enro	floxacin:			
Spec		:	Rat	
Appli	cation Route	÷	Oral 2 Years	
Resu		:	negative	
Spec	ies	:	Mouse	
Appli	cation Route	:	Oral	
Expo Resu	sure time	:	2 Years	
Resu	in and the second se	•	negative	
Benz	yl alcohol:			
Spec		:	Mouse	
	cation Route	÷	Ingestion 103 weeks	
Meth		÷	OECD Test Guide	eline 451
Resu		:	negative	
<u>Com</u>	classified based on availa ponents:			
	floxacin:			
Effec	ts on fertility	:	2	
Effor	ts on fetal development		Test Type: Develo	
LIIEC		•	Species: Rat	phient
			Application Route	
				oxicity: LOAEL: 210 mg/kg body weight fetal weight., No teratogenic effects.
				al toxicity observed.
			Test Type: Develo	opment
			Species: Rabbit	
			Application Route	: Oral oxicity: NOAEL: 25 mg/kg body weight
				cicity., No teratogenic effects.
Repr	oductive toxicity - As-	:	Some evidence o	f adverse effects on sexual function and
sessi	ment		fertility, based on	animal experiments.
II Renz	yl alcohol:			
	ts on fertility	:	Test Type: Fertilit	y/early embryonic development
	2		<i>,</i> ,	



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			Species: Rat Application Route Result: negative Remarks: Based	e: Ingestion on data from similar materials
Effec	cts on fetal development	:	Test Type: Embry Species: Mouse Application Route Result: negative	vo-fetal development :: Ingestion
	T-single exposure			
	classified based on availa	able	information.	
	T-repeated exposure		urtilago Tostis) thro	ough prolonged or repeated exposure.
		s (Ca	initiage, resus) into	ough profonged of repeated exposure.
	iponents:			
	ofloxacin:		aantilaana Taatia	
	et Organs essment	÷	cartilage, Testis Causes damage t	to organs through prolonged or repeated
			exposure.	5 51 5 1
Rep	eated dose toxicity			
-	ponents:			
Spec	ofloxacin:		Rat	
NOA		÷	36 mg/kg	
LOA	EL	:	150 mg/kg	
	ication Route	:	Oral	
	osure time et Organs	÷	13 Weeks Testis	
	-		Dec	
Spec NOA		÷	Dog 3 mg/kg	
LOA		÷	9,6 mg/kg	
	ication Route	:	Oral	
	osure time et Organs	:	13 Weeks cartilage	
Tary	et Organs	·	carmage	
Spec		:	Cat	
NOA	EL ication Route	:	25 mg/kg Oral	
Ехро	osure time	÷	30 Days	
Rem		:		verse effects were reported
Bon	zyl alcohol:			
Spec	-		Rat	
NOA		÷	1,072 mg/l	
Appl	ication Route	:	inhalation (dust/m	nist/fume)
Expo	osure time	:	28 Days	aline 410
Meth	IUU	:	OECD Test Guide	
			10 / 15	



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Not cl	ation toxicity assified based on availa			
•	rience with human exp	osi	Ire	
	oonents:			
Ingest	loxacin: tion	:	Symptoms: Gas tem effects, Se	strointestinal disturbance, central nervous sys- nsitivity to light
ECTION	12. ECOLOGICAL INFO	OR	ATION	
Ecoto	oxicity			
	oonents:			
	loxacin:			
Toxici	ty to fish	:	LC50 (Lepomis Exposure time:	macrochirus (Bluegill sunfish)): 79,5 mg/l 96 h
			LC50 (Oncorhy Exposure time:	nchus mykiss (rainbow trout)): > 196 mg/l 96 h
			LC50 (Oryzias Exposure time:	latipes (Japanese medaka)): > 100 mg/l 96 h
	ty to daphnia and other ic invertebrates	:	EC50 (Hyalella Exposure time:	azteca (Amphipod)): > 206 mg/l 96 h
			EC50 (Daphnia Exposure time:	magna (Water flea)): 79,9 mg/l 48 h
Toxici plants	ty to algae/aquatic	:	EC50 (Pseudoł mg/l Exposure time:	kirchneriella subcapitata (green algae)): 3,1 72 h
			EC50 (Microcys Exposure time:	stis aeruginosa (blue-green algae)): 0,049 mg/l 5 d
	ctor (Acute aquatic tox-	:	10	
aquat	ty to daphnia and other ic invertebrates (Chron-	:	NOEC (Daphnia Exposure time:	a magna (Water flea)): 9,8 mg/l 21 d
ic toxi	СІТУ)		NOEC (Daphnia Exposure time:	a magna (Water flea)): 5 mg/l 21 d
			LOEC (Daphnia Exposure time:	a magna (Water flea)): 15 mg/l 21 d
M-Fac toxicit	ctor (Chronic aquatic y)	:	10	



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Benzy	yl alcohol:			
	ty to fish	:	LC50 (Pimephale Exposure time: 96	es promelas (fathead minnow)): 460 mg/l 6 h
	ty to daphnia and other ic invertebrates	:	Exposure time: 48	nagna (Water flea)): 230 mg/l 8 h ēst Guideline 202
Toxici plants	ty to algae/aquatic	:	mg/l Exposure time: 72	chneriella subcapitata (green algae)): 770 2 h <sup>-</sup> est Guideline 201
			mg/l Exposure time: 72	rchneriella subcapitata (green algae)): 31 2 h 'est Guideline 201
	ty to daphnia and other ic invertebrates (Chron- city)	:	Exposure time: 2	magna (Water flea)): 51 mg/l 1 d ēst Guideline 211
Persis	stence and degradabili	ity		
Comp	oonents:	-		
	yl alcohol:			
	gradability	:	Result: Readily bi Biodegradation: Exposure time: 14	92 - 96 %
Bioac	cumulative potential			
Comp	oonents:			
Enrof	loxacin:			
	on coefficient: n- ol/water	:	log Pow: 0,5	
	yl alcohol:			
	on coefficient: n- ol/water	:	log Pow: 1,05	
Mobil	ity in soil			
Comp	oonents:			
Enrof	loxacin:			
	oution among environ- al compartments	:	Koc: 5,55	
	<b>adverse effects</b> ta available			



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SECTION	13. DISPOSAL CONSI	DEF	ATIONS			
Disp	osal methods					
Was	te from residues	:		e of waste into sewer.		
Cont	aminated packaging	<ul> <li>Dispose of in accordance with local regulations.</li> <li>Empty containers should be taken to an approved whandling site for recycling or disposal.</li> <li>If not otherwise specified: Dispose of as unused presented of the second s</li></ul>				
SECTION	14. TRANSPORT INFO	RM	ATION			
Inter	national Regulations					
	TDG					
UN r	number ver shipping name	:	UN 3082 ENVIRONMEN N.O.S. ()	ITALLY HAZARDOUS SUBSTANCE, LIQUID,		
Clas		:	9			
Pack Labe	king group	÷	 9			
	ronmentally hazardous	:	yes			
ΙΑΤΑ	A-DGR					
	D No.	:	UN 3082			
Prop	er shipping name	•	<ul><li>Environmental</li><li>()</li></ul>	ly hazardous substance, liquid, n.o.s.		
Clas		:	9			
	king group	:				
Labe Pack aircra	king instruction (cargo	:	Miscellaneous 964			
Pack ger a	king instruction (passen- aircraft)	:	964			
	ronmentally hazardous	:	yes			
	<b>G-Code</b> number		UN 3082			
	er shipping name	:	ENVIRONMEN N.O.S.	ITALLY HAZARDOUS SUBSTANCE, LIQUID,		
Clas	S	:	() 9			
	king group	:	III			
Labe	els 6 Code	:	9 E A S E			
	ne pollutant	•	F-A, S-F yes			

#### 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

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.





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SECTIC	N 15. REGULATORY IN	FORMATION	
mi	cture	-	legislation specific for the substance or
-	jentina. Carcinogenic Suł gistry.	ostances and Agents	: Not applicable
	ntrol of precursors and es paration of drugs.	sential chemicals for	the : Not applicable
Th	e ingredients of this pro	duct are reported in	n the following inventories:
AIC	•	: not determined	_
DS	L	: not determined	1
IEC	CSC	: not determined	
SECTIC	N 16. OTHER INFORMA	TION	

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#### Further information

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/

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

#### Full text of 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



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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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