

Version 7.0	Revision Date: 28.09.2024		S Number: 3908-00021	Date of last issue: 30.09.2023 Date of first issue: 27.04.2016	
SECTION	1. IDENTIFICATION				
Produ	uct identifier	:	Enrofloxacin (2.5	5%) Formulation	
Manu	ifacturer or supplier's	s deta	ils		
Comp	bany	:	MSD		
Addre	Address		Rua Coronel Bento Soares, 530 Cruzeiro - Sao Paulo - Brazil CEP 12730-340		
Telep	hone	:	908-740-4000		
Emer	Emergency telephone		1-908-423-6000		
E-ma	il address	:	EHSDATASTEV	VARD@msd.com	
Reco	Recommended use of the chen			ons on use	
	mmended use ictions on use	:	Veterinary produ Not applicable	uct	

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

GHS Classification in accordance with ABNT NBR 14725 Standard						
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 in accordance with ABNT NBR 14725 Standard

Hazard pictograms	
Signal Word	: Warning
Hazard Statements	<ul> <li>H317 May cause an allergic skin reaction.</li> <li>H373 May cause damage to organs (cartilage, Testis) through prolonged or repeated exposure.</li> <li>H410 Very toxic to aquatic life with long lasting effects.</li> </ul>



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Precautionary Staten	Prevention: P272 Contam the workplace P273 Avoid re P280 Wear p <b>Response:</b> P302 + P352 P314 Get me P333 + P313 vice/ attention	elease to the environment. rotective gloves. IF ON SKIN: Wash with plenty of water. edical advice/ attention if you feel unwell. If skin irritation or rash occurs: Get medical ad- n. Take off contaminated clothing and wash it before

### Other hazards which do not result in classification None known.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture	: Mixture		
Components			
Chemical name	CAS-No.	Classification	Concentration (% w/w)
Enrofloxacin	93106-60-6	Acute Tox. (Oral), 4 Acute Tox. (Dermal), 5 Repr., 2 STOT RE, (cartilage, Testis), 1 Aquatic Acute, 1 Aquatic Chronic, 1	>= 2,5 -< 3
Benzyl alcohol	100-51-6	Acute Tox. (Oral), 4 Eye Irrit., 2A Skin Sens., 1B	>= 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 appa of our contact		
In case of eye contact	•	Flush eyes with water as a precaution.
		Get medical attention if irritation develops and persists.



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If swallowed Most important symptoms and effects, both acute and delayed Protection of first-aiders Notes to physician		:	If swallowed, DO NOT induce vomiting. Get medical attention. Rinse mouth thoroughly with water. 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, and use the recommended personal protective equipment when the potential for exposure exists (see section 8). Treat symptomatically and supportively.			
SEC	TION 5	. FIRE-FIGHTING ME	ASL	IRES		
	Suitable	e extinguishing media	:	Water spray Alcohol-resistant Carbon dioxide (C Dry chemical		
	Unsuita media	ble extinguishing	:	None known.		
	Specific fighting	c hazards during fire	:	Exposure to comb	oustion products may be a hazard to health.	
	Hazard ucts	ous 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	
	Special for fire-	protective equipment fighters	:		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



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		can be pumpe container. Clean up rema absorbent. Local or natior disposal of this employed in th determine whic Sections 13 ar	o keep material from spreading. If diked material d, store recovered material in appropriate aining materials from spill with suitable nal regulations may apply to releases and s material, as well as those materials and items ne cleanup of releases. You will need to ch regulations are applicable. nd 15 of this SDS provide information regarding r national requirements.

#### SECTION 7. HANDLING AND STORAGE

Technical measures	<ul> <li>See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.</li> </ul>	
Local/Total ventilation Advice on safe handling	<ul> <li>Use only with adequate ventilation.</li> <li>Do not get on skin or clothing.</li> <li>Do not breathe mist or vapors.</li> <li>Do not swallow.</li> <li>Avoid contact with eyes.</li> <li>Wash skin thoroughly after handling.</li> <li>Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure assessment</li> <li>Do not eat, drink or smoke when using this product.</li> <li>Take care to prevent spills, waste and minimize release to the environment.</li> </ul>	
Hygiene measures	<ul> <li>If exposure to chemical is likely during typical use, provide ey flushing systems and safety showers close to the working place.</li> <li>When using do not eat, drink or smoke.</li> <li>Contaminated work clothing should not be allowed out of the workplace.</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>	e
Conditions for safe storage	Keep in properly labeled containers. Store in accordance with the particular national regulations.	
Materials to avoid	<ul> <li>Do not store with the following product types:</li> <li>Strong oxidizing agents</li> <li>Self-reactive substances and mixtures</li> <li>Organic peroxides</li> <li>Explosives</li> <li>Gases</li> </ul>	

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Ingredients with workplace control parameters

	-			
Components	CAS-No.	Value type	Control parame-	Basis



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			(Form of exposure	ters / Permissible concentration		
Enrof	loxacin	93106-0	50-6 TWA	0.2 mg/m3 (OEB 2)	Internal	
Engi	neering measures	techno less qu All eng design protect	logies to control a lick connections). ineering controls s and operated in a products, workers	ring controls and manufa rborne concentrations (e should be implemented b ccordance with GMP print s, and the environment.	e.g., drip- by facility nciples to	
Perse	onal protective equip	ment				
Resp	iratory protection	exposi	ure assessment de	t ventilation is not availat monstrates exposures o s, use respiratory protect	utside the	
Hand	lter type protection aterial		Combined particulates and organic vapor type			
IVI	ateriai	: Chemi	cal-resistant glove	5		
Eye p	protection	If the v mists o Wear a	vork environment of or aerosols, wear the a faceshield or othe al for direct contact	side shields or goggles. or activity involves dusty he appropriate goggles. er full face protection if th et to the face with dusts,	conditions, nere is a	
Skin a	and body protection		iniform or laborato	ry coat.		

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	:	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	:	No data available



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	flamma	bility limit			
		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	,	:	No data available	9
	Solubili Wat	ty(ies) er solubility	:	No data available	
	Partitio octanol	n coefficient: n-	:	Not applicable	
		nition temperature	:	No data available	9
	Decom	position temperature	:	No data available	9
	Viscosi Visc	ty cosity, kinematic	:	No data available	)
	Explosi	ve properties	:	Not explosive	
	Oxidizii	ng properties	:	The substance o	r mixture is not classified as oxidizing.
	Particle Particle	e characteristics e size	:	Not applicable	

## 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

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

## Acute toxicity

Not classified based on available information.

### Product:



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Acute	oral toxicity	:	Acute toxicity e Method: Calcul	stimate: > 5.000 mg/kg ation method
Acute	dermal toxicity	:	Acute toxicity e Method: Calcul	stimate: > 5.000 mg/kg ation method
<u>Comp</u>	oonents:			
Enrof	loxacin:			
Acute	oral toxicity	:	LD50 (Rabbit):	500 - 800 mg/kg
			LD50 (Rat): > 5	5.000 mg/kg
			LD50 (Mouse):	> 5.000 mg/kg
Acute	dermal toxicity	:	LD50 (Rabbit):	> 2.000 mg/kg
Benzy	yl alcohol:			
	oral toxicity	:	LD50 (Rat): 1.2	200 mg/kg
Acute	inhalation toxicity	:		4 h
	corrosion/irritation assified based on ava	ailable	information.	
<u>Comp</u>	oonents:			
	iloxacin:		No skin irritatio	2
Resul		:	No skin irritatio	n
Resul		:	No skin irritatio	n
Resul	yl alcohol:	:	Rabbit	
Resul Benzy Speci Metho	y <b>l alcohol:</b> es od	:	Rabbit OECD Test Gu	ideline 404
Benzy Speci Metho Resul Serio	t yl alcohol: es od t us eye damage/eye assified based on ava		Rabbit OECD Test Gu No skin irritation	ideline 404
Benzy Speci Metho Resul Serio Not cl	t yl alcohol: es od t us eye damage/eye assified based on ava <u>conents:</u>		Rabbit OECD Test Gu No skin irritation	ideline 404
Benzy Speci Metho Resul Serio Not cl	t yl alcohol: es od t us eye damage/eye assified based on ava <u>conents:</u> floxacin:		Rabbit OECD Test Gu No skin irritation	ideline 404 n
Resul Benzy Speci Metho Resul Serio Not cl <u>Comp</u> Enrof	t yl alcohol: es od t us eye damage/eye assified based on ava <u>conents:</u> floxacin: t		Rabbit OECD Test Gu No skin irritation <b>on</b> information.	ideline 404 n
Resul Benzy Speci Metho Resul Serio Not cl <u>Comp</u> Enrof Resul Benzy	yl alcohol: es od it <b>us eye damage/eye</b> assified based on ava <u>conents:</u> floxacin: it yl alcohol:		Rabbit OECD Test Gu No skin irritation on information. Mild eye irritatio	ideline 404 n
Resul Benzy Speci Metho Resul Serio Not cl <u>Comp</u> Enrof Resul Benzy	t yl alcohol: es od t us eye damage/eye assified based on ava <u>conents:</u> floxacin: t yl alcohol: es		Rabbit OECD Test Gu No skin irritation on information. Mild eye irritation Rabbit	ideline 404 n
Resul Benzy Speci Metho Resul Serio Not cl <u>Comp</u> Enrof Resul Benzy	t yl alcohol: es od t us eye damage/eye assified based on ava <u>ponents:</u> floxacin: t yl alcohol: es t		Rabbit OECD Test Gu No skin irritation on information. Mild eye irritation Rabbit	ideline 404 n on s, reversing within 21 days



)	Revision Date: 28.09.2024		5 Number: 908-00021	Date of last issue: 30.09.2023 Date of first issue: 27.04.2016
Resp	iratory or skin sens	itization	I	
	sensitization ause an allergic skin	reactior	۱.	
-	iratory sensitization assified based on av		nformation.	
<u>Comp</u>	oonents:			
Test	es of exposure es	:	Maximization Te Dermal Guinea pig Not a skin sensit	
Benz	yl alcohol:			
Test	Гуре es of exposure es	:	Human repeat in Skin contact Humans positive	sult patch test (HRIPT)
	amont	:	Probability or evi	dance of low to moderate skin consitization
Asses			rate in humans	
Germ Not cl	<b>cell mutagenicity</b> assified based on av ponents:		rate in humans	
Germ Germ Not cl <u>Comp</u> Enrof	<b>cell mutagenicity</b> assified based on av	ailable ir	rate in humans	dence of low to moderate skin sensitizatior
Germ Not cl <u>Comp</u> Enrof	<b>cell mutagenicity</b> assified based on av ponents: loxacin:	ailable ir	rate in humans nformation. Test Type: Chror	nosomal aberration
Germ Not cl <u>Comp</u> Enrof	a <b>cell mutagenicity</b> assified based on av <u>conents:</u> floxacin: toxicity in vitro	ailable ir :	rate in humans nformation. Test Type: Chror Result: positive Test Type: Micro Species: Mouse Result: negative	nosomal aberration nucleus test malian bone marrow sister chromatid ex-
Germ Not cl <u>Comp</u> Enrof	a <b>cell mutagenicity</b> assified based on av <u>conents:</u> floxacin: toxicity in vitro	ailable ir	rate in humans nformation. Test Type: Chror Result: positive Test Type: Micro Species: Mouse Result: negative Test Type: Mami change Species: Hamste Result: negative	nosomal aberration nucleus test malian bone marrow sister chromatid ex-
Germ Not cl Com Enrof Geno Geno	<b>cell mutagenicity</b> assified based on av <b>conents:</b> floxacin: toxicity in vitro toxicity in vivo	ailable ir	rate in humans nformation. Test Type: Chror Result: positive Test Type: Micro Species: Mouse Result: negative Test Type: Mami change Species: Hamste Result: negative Test Type: Chror Species: Rat	mosomal aberration nucleus test malian bone marrow sister chromatid ex-
Germ Not cl Com Enrof Geno Geno	assified based on av conents: floxacin: toxicity in vitro toxicity in vivo	ailable ir	rate in humans nformation. Test Type: Chror Result: positive Test Type: Micro Species: Mouse Result: negative Test Type: Mami change Species: Hamste Result: negative Test Type: Chror Species: Rat Result: negative	mosomal aberration nucleus test malian bone marrow sister chromatid ex-



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			cytogenetic ass Species: Mouse Application Rou Result: negative	te: Intraperitoneal injection
Carcir	nogenicity			
	assified based on availa	ble	information.	
	onents:			
	loxacin:			
Specie Applica	es ation Route ure time	:	Rat Oral 2 Years negative	
	ation Route ure time	:	Mouse Oral 2 Years negative	
Benzy	l alcohol:			
	ation Route ure time d	:	Mouse Ingestion 103 weeks OECD Test Gui negative	deline 451
Not cla	ductive toxicity assified based on availa onents:	ble	information.	
Enrofl	loxacin:			
Effects	s on fertility	:	Test Type: Two Species: Rat	-generation study
				te: Oral : 15 mg/kg body weight on fertility., alteration in sperm morphology
Effects	s on fetal development	:	Fertility: LOAEL Result: Effects of Test Type: Deve Species: Rat Application Rou Developmental Result: Reduced	: 15 mg/kg body weight on fertility., alteration in sperm morphology elopment
Effects	s on fetal development	:	Fertility: LOAEL Result: Effects of Test Type: Deve Species: Rat Application Rou Developmental Result: Reduced Remarks: Mater Test Type: Deve Species: Rabbit Application Rou Developmental	: 15 mg/kg body weight on fertility., alteration in sperm morphology elopment te: Oral Toxicity: LOAEL: 210 mg/kg body weight d fetal weight., No teratogenic effects. mal toxicity observed.
	s on fetal development ductive toxicity - As-	:	Fertility: LOAEL Result: Effects of Test Type: Deve Species: Rat Application Rou Developmental Result: Reduced Remarks: Mater Test Type: Deve Species: Rabbit Application Rou Developmental Result: No fetoto	: 15 mg/kg body weight on fertility., alteration in sperm morphology elopment te: Oral Toxicity: LOAEL: 210 mg/kg body weight d fetal weight., No teratogenic effects. mal toxicity observed. elopment te: Oral Toxicity: NOAEL: 25 mg/kg body weight



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sessm	nent		fertility, based on	animal experiments.
	<b>yl alcohol:</b> s on fertility	:	Species: Rat Application Route Result: negative	ty/early embryonic development e: Ingestion on data from similar materials
Effect	s on fetal development	:	Test Type: Embry Species: Mouse Application Route Result: negative	vo-fetal development e: Ingestion
	-single exposure assified based on availa	able	information.	
	<b>-repeated exposure</b> ause damage to organs	s (ca	rtilage, Testis) thro	ough prolonged or repeated exposure.
	oonents:			
Targe	Ioxacin: t Organs ssment	:	cartilage, Testis Causes damage exposure.	to organs through prolonged or repeated
Repea	ated dose toxicity			
Comp	oonents:			
Specie NOAE LOAE Applic Expos	EL	:	Rat 36 mg/kg 150 mg/kg Oral 13 Weeks Testis	
Expos	EL	:	Dog 3 mg/kg 9,6 mg/kg Oral 13 Weeks cartilage	
	EL cation Route sure time	:	Cat 25 mg/kg Oral 30 Days No significant adv	verse effects were reported

Benzyl alcohol:



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Spec NOA		: Rat : 1,072 mg/l						
Application Route			: inhalation (dust/mist/fume)					
Expo	sure time	: 28 Days	: 28 Days					
Meth	od	: OECD Test	Guideline 412					
	rience with human e	•						
	ponents:							
<u>Com</u>	floxacin:							

Ecoto	kicity
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Components:		
Enrofloxacin:		
Toxicity to fish	:	LC50 (Lepomis macrochirus (Bluegill sunfish)): 79,5 mg/l Exposure time: 96 h
		LC50 (Oncorhynchus mykiss (rainbow trout)): > 196 mg/l Exposure time: 96 h
		LC50 (Oryzias latipes (Japanese medaka)): > 100 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Hyalella azteca (Amphipod)): > 206 mg/l Exposure time: 96 h
		EC50 (Daphnia magna (Water flea)): 79,9 mg/l Exposure time: 48 h
Toxicity to algae/aquatic plants	:	EC50 (Pseudokirchneriella subcapitata (green algae)): 3,1 mg/l Exposure time: 72 h
		EC50 (Microcystis aeruginosa (blue-green algae)): 0,049 mg/l Exposure time: 5 d
M-Factor (Acute aquatic tox- icity)	:	10
Toxicity to daphnia and other aquatic invertebrates (Chron- ic toxicity)	:	NOEC (Daphnia magna (Water flea)): 9,8 mg/l Exposure time: 21 d
		NOEC (Daphnia magna (Water flea)): 5 mg/l Exposure time: 21 d
		LOEC (Daphnia magna (Water flea)): 15 mg/l



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II			Exposure time: 2	1 d
M-Fac toxicit	ctor (Chronic aquatic y)	:	10	
Benz	yl alcohol:			
Toxici	ity to fish	:	LC50 (Pimephale Exposure time: 9	es promelas (fathead minnow)): 460 mg/l 6 h
	ity to daphnia and other ic invertebrates	:	Exposure time: 4	nagna (Water flea)): 230 mg/l 8 h Test Guideline 202
Toxici plants	ity to algae/aquatic	:	mg/l Exposure time: 7	rchneriella subcapitata (green algae)): 77( 2 h Fest Guideline 201
			mg/l Exposure time: 7	irchneriella subcapitata (green algae)): 31 2 h Fest Guideline 201
	ity to daphnia and other ic invertebrates (Chron- icity)	:	Exposure time: 2	magna (Water flea)): 51 mg/l 1 d <sup>-</sup> est Guideline 211
Persi	stence and degradabili	ty		
<u>Comp</u>	oonents:			
Benz	yl alcohol:			
	gradability	:	Result: Readily b Biodegradation: Exposure time: 1	92 - 96 %
	cumulative potential			
Comp	oonents:			
Partiti	f <b>loxacin:</b> on coefficient: n- ol/water	:	log Pow: 0,5	
Partiti	<b>yl alcohol:</b> on coefficient: n- ol/water	:	log Pow: 1,05	
Mobil	lity in soil			
<u>Com</u>	oonents:			
Enrof	loxacin:			
	oution among environ- al compartments	:	Koc: 5,55	





Other adverse e No data available SECTION 13. DISPOS	)				
SECTION 13. DISPOS		ERATIONS			
Disposal metho	ds				
Waste from residues		•	Do not dispose of waste into sewer. Dispose of in accordance with local regulations.		
Contaminated packaging		: Empty contair handling site f			

UNRTDG		
UN number	:	UN 3082
Proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
		()
Class	:	9
Packing group	:	
Labels	:	9
Environmentally hazardous	:	yes
IATA-DGR		
UN/ID No.	:	UN 3082
Proper shipping name	:	Environmentally hazardous substance, liquid, n.o.s.
Olasa		()
Class	÷	9 
Packing group	÷	
Labels	÷	Miscellaneous
Packing instruction (cargo aircraft)	:	964
Packing instruction (passen-	:	964
ger aircraft)		
Environmentally hazardous	:	yes
IMDG-Code		
UN number	:	UN 3082
Proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
		N.O.S.
		0
Class	:	9
Packing group	:	III
Labels	:	9
EmS Code	:	F-A, S-F
Marine pollutant	:	yes

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

Not applicable for product as supplied.

## **Domestic regulation**

ANTT



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	UN nui Proper	mber shipping name	:	UN 3082 ENVIRONMENTA N.O.S.	ALLY HAZARDOUS SUBSTANCE, LIQUID,
	Labels	g group I Identification Number	:	9 111 9 90	

### 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.

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

## Safety, health and environmental regulations/legislation specific for the substance or mixture National List of Carcinogenic Agents for Humans - : Not applicable (LINACH)

Brazil. List of chemicals controlled by the Federal : Not applicable Police

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

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

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

Revision Date	:	28.09.2024
Date format	:	dd.mm.yyyy

#### 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



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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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