

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878

Enrofloxacin (10%) Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 06.04.2024
7.0	28.09.2024	641495-00024	Date of first issue: 27.04.2016

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1	Product identifier		
	Trade name	:	Enrofloxacin (10%) Formulation
1.2	Relevant identified uses of the	ne s	ubstance or mixture and uses advised against
	Use of the Sub- stance/Mixture	:	Veterinary product
	Recommended restrictions on use	:	Not applicable
1.3	Details of the supplier of the	saf	ety data sheet
	Company	:	MSD
			Kilsheelan
			Clonmel Tipperary, IE
	Telephone	:	353-51-601000
	E-mail address of person responsible for the SDS	:	EHSDATASTEWARD@msd.com

1.4 Emergency telephone number

1-908-423-6000

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Skin sensitisation, Category 1 Reproductive toxicity, Category 2 Specific target organ toxicity - repeated exposure, Category 1 Short-term (acute) aquatic hazard, Category 1 Long-term (chronic) aquatic hazard, Category 1 H317: May cause an allergic skin reaction.H361f: Suspected of damaging fertility.H372: Causes damage to organs through prolonged or repeated exposure.H400: Very toxic to aquatic life.

H410: Very toxic to aquatic life with long lasting effects.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

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Hazar	d pictograms	:		! ***
Signa	l word	:	Danger	• •
Hazar	d statements	:	H317 H361f H372	May cause an allergic skin reaction. Suspected of damaging fertility. Causes damage to organs through prolonged or repeated exposure.
			H410	Very toxic to aquatic life with long lasting effects.
Preca	utionary statements	:	Prevention	
			P201 P273 P280	Obtain special instructions before use. Avoid release to the environment. Wear protective gloves/ protective clothing/ eye protection/ face protection.
			Response:	
			P308 + P31	3 IF exposed or concerned: Get medical advice/ attention.
			P333 + P31	 If skin irritation or rash occurs: Get medical advice/ attention.
			P391	Collect spillage.

Hazardous components which must be listed on the label:

Enrofloxacin Benzyl alcohol

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

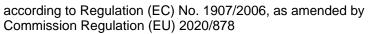
Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

Chemical name	CAS-No. EC-No.	Classification	Concentration (% w/w)
	Index-No.		· · · ·
	Registration number		





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ersion)	Revision Date: 28.09.2024	SDS Number: 641495-00024	Date of last issue: 06.04.2024 Date of first issue: 27.04.2016
Enrofloxacin		93106-60-6	Acute Tox. 4; H302 Repr. 2; H361f STOT RE 1; H372 (cartilage, Testis) Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 10 M-Factor (Chronic aquatic toxicity): 10
Benzy	yl alcohol	100-51-6 202-859-9 603-057-00-5	Acute Tox. 4; H302 Eye Irrit. 2; H319 Skin Sens. 1B; H317 Acute toxicity estimate Acute oral toxicity: 1,200 mg/kg

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice	:	In the case of accident or if you feel unwell, seek medical ad- vice immediately. When symptoms persist or in all cases of doubt seek medical advice.
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).
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.

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		Get medical Rinse mouth	attention. h thoroughly with water.			
4.2 Most i	4.2 Most important symptoms and effects, both acute and delayed					
Risks		Suspected of	an allergic skin reaction. of damaging fertility. nage to organs through prolonged or repeated			
4.3 Indica	tion of any immedia	te medical attentio	n and special treatment needed			
Treat	ment	: Treat sympton	omatically and supportively.			

SECTION 5: Firefighting measures

5.1	Extinguishing media		
	Suitable extinguishing media	:	Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical
	Unsuitable extinguishing media	:	None known.
5.2	Special hazards arising from	the	e substance or mixture
	Specific hazards during fire- fighting	:	Exposure to combustion products may be a hazard to health.
	Hazardous combustion prod- ucts	:	Carbon oxides
5.3	Advice for firefighters		
	Special protective equipment for firefighters	:	In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.
	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.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedu	res
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Personal precautions	:	Use personal protective equipment.	
		Follow safe handling advice (see section 7) and personal pro-	
		tective equipment recommendations (see section 8).	

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6.2 Enviro	nmental precautions		
Enviro	onmental precautions	Prevent further Prevent spread barriers). Retain and disp	o the environment. leakage or spillage if safe to do so. ing over a wide area (e.g. by containment or oil pose of contaminated wash water. s should be advised if significant spillages ained.
6.3 Metho	ds and material for co	ontainment and clea	ning up
Metho	Methods for cleaning up :		ert absorbent material. provide dyking or other appropriate contain- naterial from spreading. If dyked material can pre recovered material in appropriate container. ning materials from spill with suitable absor- al regulations may apply to releases and dis- aterial, as well as those materials and items e cleanup of releases. You will need to deter- ulations are applicable. d 15 of this SDS provide information regarding national requirements.

6.4 Reference to other sections

See sections: 7, 8, 11, 12 and 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Technical measures	:	See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.
Local/Total ventilation Advice on safe handling	:	Use only with adequate ventilation. Do not get on skin or clothing. Do not breathe mist or vapours. Do not swallow. Avoid contact with eyes. Wash skin thoroughly after handling. Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure as- sessment
		Do not eat, drink or smoke when using this product. Take care to prevent spills, waste and minimize release to the environment.
Hygiene measures	:	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. Contaminated work clothing should not be allowed out of the workplace. 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,

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7.0 Candi	4:	use of admini	iene monitoring, medical surveillance and the istrative controls.					
7.2 Condi	7.2 Conditions for safe storage, including any incompatibilities							
Requirements for storage areas and containers			erly labelled containers. Store locked up. Store in with the particular national regulations.					
Advice on common storage		Strong oxidiz	substances and mixtures					
	f ic end use(s) ific use(s)	: No data avail	able					

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Enrofloxacin	93106-60-6	TWA	0.2 mg/m3 (OEB 2)	Internal

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006

Substance name	End Use	Exposure routes	Potential health ef- fects	Value
Benzyl alcohol	Workers	Inhalation	Long-term systemic effects	22 mg/m3
	Workers	Inhalation	Acute systemic ef- fects	110 mg/m3
	Workers	Skin contact	Long-term systemic effects	8 mg/kg bw/day
	Workers	Skin contact	Acute systemic ef- fects	40 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	5.4 mg/m3
	Consumers	Inhalation	Acute systemic ef- fects	27 mg/m3
	Consumers	Skin contact	Long-term systemic effects	4 mg/kg bw/day
	Consumers	Skin contact	Acute systemic ef- fects	20 mg/kg bw/day
	Consumers	Ingestion	Long-term systemic effects	4 mg/kg bw/day
	Consumers	Ingestion	Acute systemic ef- fects	20 mg/kg bw/day

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Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006

Substance name	Environmental Compartment	Value
Benzyl alcohol	Fresh water	1 mg/l
	Marine water	0.1 mg/l
	Intermittent use/release	2.3 mg/l
	Sewage treatment plant	39 mg/l
	Fresh water sediment	5.27 mg/kg
	Marine sediment	0.527 mg/kg
	Soil	0.456 mg/kg

8.2 Exposure controls

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

		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.
Hand protection Material	:	Chemical-resistant gloves
Skin and body protection Respiratory protection	:	Work uniform or laboratory coat. If adequate local exhaust ventilation is not available or expo- sure assessment demonstrates exposures outside the rec- ommended guidelines, use respiratory protection. Equipment should conform to I.S. EN 14387
Filter type	:	Combined particulates and organic vapour type (A-P)

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	:	liquid
Colour	:	No data available
Odour	:	No data available
Odour Threshold	:	No data available
Melting point/freezing point	:	No data available
Initial boiling point and boiling range	:	No data available

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	Flamma	ability (solid, gas)	:	Not applicable	
	Flamma	ability (liquids)	:	No data available	9
		explosion limit / Upper bility limit	:	No data available	9
		explosion limit / Lower bility limit	:	No data available	9
	Flash p	point	:	No data available	9
	Auto-ig	nition temperature	:	No data available	9
	Decom	position temperature	:	No data available	9
	рН		:	No data available	9
	Viscosi Visc	ty cosity, kinematic	:	No data available	9
	Solubili Wat	ity(ies) er solubility	:	No data available	
	Partitio octanol	n coefficient: n- /water	:	Not applicable	
	Vapour	pressure	:	No data available	9
	Relative	e density	:	No data available	9
	Density	/	:	No data available	9
	Relative	e vapour density	:	No data available	9
		e characteristics ticle size	:	Not applicable	
9.2		oformation			
	Explosi	ves	:	Not explosive	
	Oxidiziı	ng properties	:	The substance o	r mixture is not classified as oxidizing.
	Evapor	ation rate	:	No data available	9



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SECTION 10: Stability and reactivity

10.1 Reactivity Not classified as a reactivity hazard. 10.2 Chemical stability Stable under normal conditions. 10.3 Possibility of hazardous reactions Hazardous reactions : Can react with strong oxidizing agents. 10.4 Conditions to avoid Conditions to avoid : None known.

10.5 Incompatible materials

Materials to avoid	: Oxidizing agents
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10.6 Hazardous decomposition products

No hazardous decomposition products are known.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

1.1 Information on hazard clas	ses	as defined in Regulation (EC) No 1272
Information on likely routes o exposure	f :	Inhalation Skin contact Ingestion Eye contact
Acute toxicity		
Not classified based on avail	able	information.
Product:		
Acute oral toxicity	:	Acute toxicity estimate: > 2,000 mg/kg Method: Calculation method
Components:		
Enrofloxacin:		
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
Benzyl alcohol:		
Acute oral toxicity	:	LD50 (Rat): 1,200 mg/kg

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Acute inhalation toxicity			LC50 (Rat): > 5.4 Exposure time: 4 Test atmosphere: Method: OECD T Assessment: The tion toxicity	h dust/mist
	corrosion/irritation		to former after a	
	lassified based on avail ponents:	able	information.	
	floxacin:			
Resu		:	No skin irritation	
Bonz				
Spec	:yl alcohol: ies		Rabbit	
Meth	od	:	OECD Test Guide	eline 404
Resu		•	No skin irritation	
	bus eye damage/eye iri Iassified based on avail			
	ponents:			
Enro	floxacin:			
Resu	llt	:	Mild eye irritation	
Benz	yl alcohol:			
Spec	-	:	Rabbit	
Meth Resu		:	OECD Test Guide	eline 405 reversing within 21 days
I Kesu	int.	•	initation to eyes,	
Resp	piratory or skin sensitis	satio	on	
	sensitisation cause an allergic skin re	acti	วท	
	biratory sensitisation	aour		
-	lassified based on avail	able	information.	
<u>Com</u>	ponents:			
Enro	floxacin:			
Test		:	Maximisation Tes	t
Expo Spec	sure routes ies	:	Dermal Guinea pig	
Resu		:	Not a skin sensitiz	zer.

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Benzv	/l alcohol:				
Test T	ype ure routes es	:	Human repeat Skin contact Humans positive	insult patch test (HRIPT)	
Asses	sment	:	Probability or e rate in humans	evidence of low to moderate skin sensitisatio	
	cell mutagenicity				
	assified based on ava	ailable	information.		
<u>Comp</u>	onents:				
	loxacin:				
Genot	oxicity in vitro	:	Test Type: Chi Result: positive	romosomal aberration	
Genotoxicity in vivo		: Test Type: Micronucleus test Species: Mouse Result: negative			
			Test Type: Ma change Species: Hams Result: negativ		
			Test Type: Chi Species: Rat Result: negativ	romosomal aberration	
Benzy	/l alcohol:				
	oxicity in vitro	:	: Test Type: Bacterial reverse mutation assay (AMES) Result: negative		
Genot	oxicity in vivo	:	 Test Type: Mammalian erythrocyte micronucleus test (cytogenetic assay) Species: Mouse Application Route: Intraperitoneal injection Result: negative 		

Not classified based on available information.

Components:

Enrofloxacin:

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

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	cation Route sure time		Mouse Oral 2 Years negative	
Speci Applic Expos Metho Resul	Benzyl alcohol:SpeciesApplication RouteExposure timeMethodResult		Mouse Ingestion 103 weeks OECD Test Guide negative	eline 451
	oductive toxicity ected of damaging fertili	ty.		
<u>Com</u>	oonents:			
	floxacin: is on fertility	:		
Effect ment	Effects on foetal develop- ment		Result: Reduced	
Repro	oductive toxicity - As- nent	:		f adverse effects on sexual function and animal experiments.
Benz	yl alcohol:			
	s on fertility	:	Species: Rat Application Route Result: negative	y/early embryonic development :: Ingestion on data from similar materials
Effect ment	s on foetal develop-	:	Test Type: Embry Species: Mouse Application Route	vo-foetal development :: Ingestion

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		Result: nega	tive
	F - single exposure lassified based on ava	ailable information.	
Caus	Γ - repeated exposur es damage to organs		r repeated exposure.
Enro Targe	ponents: floxacin: et Organs ssment	: cartilage, Tes : Causes dam exposure.	stis age to organs through prolonged or repeated
-	eated dose toxicity		
	ponents:		
Spec NOA LOAE Appli Expo	EL	: Rat : 36 mg/kg : 150 mg/kg : Oral : 13 Weeks : Testis	
Expo	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 significan	t adverse effects were reported
Spec NOA Appli Expo Meth	EL cation Route sure time	: 28 Days	ust/mist/fume) Guideline 412

Aspiration toxicity

Not classified based on available information.

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11.2 Information on other hazards

Endocrine disrupting properties

Product:

Assessment

: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Experience with human exposure

Components:

Enrofloxacin:

Ingestion	: Symptoms: Gastrointestinal disturbance, central nervous sys- tem effects, Sensitivity to light
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SECTION 12: Ecological information

12.1 Toxicity

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-	:	NOEC: 9.8 mg/l Exposure time: 21 d

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I	ic toxicity)			Species: Daphnia	magna (Water flea)	
				NOEC: 5 mg/l Exposure time: 21 Species: Daphnia	l d magna (Water flea)	
				LOEC: 15 mg/l Exposure time: 21 Species: Daphnia	l d magna (Water flea)	
	M-Fact toxicity	or (Chronic aquatic)	:	10		
	Benzyl	alcohol:				
	Toxicity	y to fish	:	LC50 (Pimephale Exposure time: 96	s promelas (fathead minnow)): 460 mg/l ১ h	
	Toxicity to daphnia and other aquatic invertebrates		:	EC50 (Daphnia magna (Water flea)): 230 mg/l Exposure time: 48 h Method: OECD Test Guideline 202		
	Toxicity plants	/ to algae/aquatic	:	EC50 (Pseudokiro mg/l Exposure time: 72 Method: OECD Te		
				NOEC (Pseudokin mg/l Exposure time: 72 Method: OECD Te		
	aquatic ic toxic	y to daphnia and other invertebrates (Chron- ity)	on- Exposure time: 21		magna (Water flea)	
		tence and degradabil	ity			
	Compo	onents:				
	Benzyl alcohol: Biodegradability		:	Result: Readily bi Biodegradation: S Exposure time: 14	92 - 96 %	
12.3	Bioaco	cumulative potential				
	Compo	onents:				
	Enrofic	oxacin:				
	Partitio octanol	n coefficient: n- I/water	:	log Pow: 0.5		

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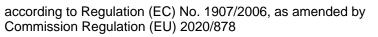
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Partit octan	yl alcohol: ion coefficient: n- iol/water	:	log Pow: 1.05	
12.4 Mobi	lity in soil			
Com	ponents:			
Distri	floxacin: bution among environ- al compartments	:	Koc: 5.55	
12.5 Resu	Ilts of PBT and vPvB a	sses	sment	
Prod	uct:			
Asses	ssment		to be either persis	ixture contains no components considered stent, bioaccumulative and toxic (PBT), or id very bioaccumulative (vPvB) at levels of
12.6 Endo	ocrine disrupting prop	erties	5	
Prod				
Asse	ssment		ered to have endo REACH Article 57	ixture does not contain components consid- ocrine disrupting properties according to Y(f) or Commission Delegated regulation or Commission Regulation (EU) 2018/605 at higher.
12 7 Othe	r adverse effects			
	ata available			
SECTION	N 13: Disposal consi	dera	tions	
13.1 Wast	e treatment methods			
Produ			According to the I are not product sp Waste codes sho discussion with th	ordance with local regulations. European Waste Catalogue, Waste Codes becific, but application specific. uld be assigned by the user, preferably in e waste disposal authorities.
Conta	aminated packaging	:	Empty containers dling site for recyc	should be taken to an approved waste han-

SECTION 14: Transport information

14.1 UN number or ID number

ADN	:	UN 3082
ADR	:	UN 3082





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RID			1 3082	
IMDG	ì	: UN	1 3082	
ΙΑΤΑ		: UN	1 3082	
14.2 UN p	roper shipping name			
ADN			IVIRONMENTA D.S.	ALLY HAZARDOUS SUBSTANCE, LIQUID,
ADR			IVIRONMENTA D.S.	ALLY HAZARDOUS SUBSTANCE, LIQUID,
RID			IVIRONMENTA D.S.	ALLY HAZARDOUS SUBSTANCE, LIQUID,
IMDG	ì		IVIRONMENTA D.S.	ALLY HAZARDOUS SUBSTANCE, LIQUID,
ΙΑΤΑ		: En ()	vironmentally h	nazardous substance, liquid, n.o.s.
14.3 Trans	sport hazard class(es)			
		Cla	ass	Subsidiary risks
ADN		: 9		
ADR		: 9		
RID		: 9		
IMDG	ì	: 9		
IATA		: 9		
	ing group			
Class	ng group ification Code rd Identification Number s	: III : Me : 90 : 9		
Class Hazai Label Tunne RID Packi Class	el restriction code ng group ification Code rd Identification Number	: III : M6 : 90 : 9 : (-) : III : M6 : 90 : 9	5	

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	IMDG Packin Labels EmS C		:	III 9 F-A, S-F	
	Packin aircraft Packin	g instruction (LQ)		964 Y964 III Miscellaneous	
	Packin ger air Packin	ig instruction (LQ) ig group	:	964 Y964 III Miscellaneous	
14.	5 Enviro	onmental hazards			
	ADR	nmentally hazardous nmentally hazardous	:	yes	
	RID	nmentally hazardous	:	yes	
	IMDG Marine	epollutant	:	yes	
		Passenger) nmentally hazardous	:	yes	
		Cargo) nmentally hazardous	:	yes	
14	6 Snaci	al procautions for use	r		

14.6 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.

14.7 Maritime transport in bulk according to IMO instruments

Remarks

: Not applicable for product as supplied.

:

SECTION 15: Regulatory information

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

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII) Conditions of restriction for the following entries should be considered: Number on list 3

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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the m		ne manufacture, placing ain dangerous substand ex XVII)	
REAC	CH - Candidate List of	⁻ Substances of Very Hi	Substance(s) or mixture(s) are listed here according to their appearance in the regulation, irrespective of the use/purpose or the conditions of the restriction. Please refer to the condi- tions in corresponding Regulation to determine whether an entry is appli- cable to the placing on the market not.
	ern for Authorisation (lation (EC) on substa	(Article 59). nces that deplete the o	one : Not applicable
layer		1 on persistent organic	
tants Regul ment	(recast) lation (EU) No 649/20 and the Council conc)12 of the European Pa erning the export and in	lia- : Not applicable
REAC		s subject to authorisation	n : Not applicable
Seves			Parliament and of the Council on the control o
E1		olving dangerous subs ENVIRONMEN HAZARDS	Quantity 1 Quantity 2
Othe	regulations:		
	note of Directive 92/8 applicable.	5/EEC regarding mate	nity protection or stricter national regulations,
Take			of young people at work or stricter national
	omponents of this p	-	the following inventories:
AICS		: not determined	
DSL		: not determined	
	С	: not determined	

15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

Other information

: Items where changes have been made to the previous version

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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			are highlighted in lines.	the body of this document by two vertical	
Full te	xt of H-Statements				
H302		:	Harmful if swallow	ved.	
H317		:	May cause an allergic skin reaction.		
H319		:	Causes serious eye irritation.		
H361f		:	Suspected of damaging fertility.		
H372		:	Causes damage to organs through prolonged or repeated exposure.		
H400		:	Very toxic to aquatic life.		
H410		:	Very toxic to aquatic life with long lasting effects.		
Full te	kt of other abbreviation	ons			
Acute Tox.		:	Acute toxicity		
Aquatic Acute		:	Short-term (acute) aquatic hazard		
Aquatic Chronic		:	Long-term (chronic) aquatic hazard		
Eye Irrit.		:	Eye irritation		
Repr.		:	Reproductive toxicity		
Skin Se	ens.	:	Skin sensitisation		
STOT RE		:	Specific target organ toxicity - repeated exposure		

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA -European Chemicals Agency; EC-Number - European Community number; 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; 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; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; 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; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECI -Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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- Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information

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

Classification of the n	nixture:	Classification procedure:		
Skin Sens. 1	H317	Calculation method		
Repr. 2	H361f	Calculation method		
STOT RE 1	H372	Calculation method		
Aquatic Acute 1	H400	Calculation method		
Aquatic Chronic 1	H410	Calculation method		

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

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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