



Versior 3.0	n Revision Date: 06.04.2024		S Number: 46720-00014	Date of last issue: 30.09.2023 Date of first issue: 19.12.2017
Sectio	n 1: Identification			
Pr	oduct identifier	:	Enrofloxacin Soli	id Formulation
Re	ecommended use of the c	hem	ical and restriction	ons on use
	ecommended use	:	Veterinary produ	ct
Re	estrictions on use	:	Not applicable	
Ma	anufacturer or supplier's o	detai	ils	
Co	ompany	:	MSD	
Ac	ldress	:	50 Tuas West Dr Singapore - Sing	
			Singapore - Sing	yapole 030400
Те	lephone	:	+1-908-740-4000	0
Er	nergency telephone numbe	r :	65 6697 2111 (2	4/7/365)
E-	mail address	:	EHSDATASTEW	/ARD@msd.com

Section 2: Hazard identification

Classification of the substance or mixture

Acute toxicity (Oral)	:	Category 4
Reproductive toxicity	:	Category 2
Specific target organ toxicity - repeated exposure	:	Category 1 (cartilage, Testis)
Short-term (acute) aquatic hazard	:	Category 1
Long-term (chronic) aquatic hazard	:	Category 1

GHS Label elements, including precautionary statements

Hazard pictograms	
Signal word	: Danger
Hazard statements	 H302 Harmful if swallowed. H361f Suspected of damaging fertility. H372 Causes damage to organs (cartilage, Testis) through



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			epeated exposure. ic to aquatic life with long lasting effects.
Preca	autionary statements	P202 Do not h and understoo P260 Do not b P264 Wash sk P270 Do not e P273 Avoid ret P280 Wear pro	
		CENTER/ doc	P330 IF SWALLOWED: Call a POISON tor if you feel unwell. Rinse mouth. F exposed or concerned: Get medical advice/ pillage.
		Storage: P405 Store loc	sked up.
		Disposal: P501 Dispose disposal plant.	of contents/ container to an approved waste
Dust Conta	contact with the eyes of act with dust can cause	ot result in classifica can lead to mechanica e mechanical irritation	l irritation.

May form explosive dust-air mixture during processing, handling or other means.

Section 3: Composition/information on ingredients

Substance / Mixture :	Mixture
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Components

Chemical name	CAS-No.	Concentration (% w/w)
Enrofloxacin	93106-60-6	>= 50 -< 70
Starch	9005-25-8	>= 10 -< 20
Cellulose	9004-34-6	>= 10 -< 20
Magnesium stearate	557-04-0	>= 1 -< 10

Section 4: First-aid measures

Description of necessary 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



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lf inha	alad		advice. If inhaled, remo	in the freedbair
	aleo	•	Get medical atte	ention.
In cas	se of skin contact	:	of water.	ct, immediately flush skin with soap and ple
			Remove contant Get medical atte	ninated clothing and shoes.
			Wash clothing b	efore reuse.
In cas	se of eye contact	:	I horoughly clea	n shoes before reuse. well with water.
If owo	llowed			ention if irritation develops and persists. O NOT induce vomiting.
11 SWa	lliowed	·	Get medical atte	ention.
				proughly with water. hing by mouth to an unconscious person.
Most	important symptoms	and e		
Risks		:	Harmful if swalle	owed.
			Suspected of da	maging fertility. to organs through prolonged or repeated
			exposure.	
			the skin.	st can cause mechanical irritation or drying
Proto	ction of first-aiders			h the eyes can lead to mechanical irritation ders should pay attention to self-protection,
FIOLE		•	and use the rec	ommended personal protective equipment ial for exposure exists (see section 8).
Indica	ation of any immediate	me	dical attention a	and special treatment needed
Treat	ment	:	Treat symptoma	tically and supportively.
	Fire-fighting measure	s		
ction 5:				
Exting	guishing media		Water spray	
Exting	guishing media ble extinguishing media	:	Water spray Alcohol-resistan	
Exting		:	Alcohol-resistan Carbon dioxide	
Exting Suitat	ble extinguishing media	:	Alcohol-resistan	
Exting Suitat Unsui media	ble extinguishing media	:	Alcohol-resistan Carbon dioxide Dry chemical None known.	(CO2)
Exting Suitat Unsui media Speci	ble extinguishing media itable extinguishing a ial hazards arising fro fic hazards during fire-	:	Alcohol-resistan Carbon dioxide Dry chemical None known. e substance or Avoid generatin concentrations, potential dust ex	(CO2) mixture g dust; fine dust dispersed in air in sufficien and in the presence of an ignition source is plosion hazard.
Exting Suitat Unsui media Speci Speci	ble extinguishing media itable extinguishing a ial hazards arising fro fic hazards during fire-	:	Alcohol-resistan Carbon dioxide Dry chemical None known. e substance or Avoid generatin concentrations, potential dust ex	(CO2) mixture g dust; fine dust dispersed in air in sufficien and in the presence of an ignition source is



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Spec for fir	ial protective actions f ial protective equipment efighters ific extinguishing meth-	 In the event of fit Use personal pro Use extinguishin cumstances and Use water spray 	re, wear self-contained breathing apparatus. otective equipment. Ig measures that are appropriate to local cir- the surrounding environment. to cool unopened containers. aged containers from fire area if it is safe to do
		so. Evacuate area.	Ŭ
	: Accidental release m		
	precautions, protective onal precautions	: Use personal pro Follow safe hand	ergency procedures otective equipment. dling advice (see section 7) and personal pro- nt recommendations (see section 8).
	ental precautions onmental precautions	Prevent further le Retain and dispo	the environment. eakage or spillage if safe to do so. ose of contaminated wash water. should be advised if significant spillages ined.
	and materials for conta ods for cleaning up	: Sweep up or vac tainer for disposa Avoid dispersal of with compressed Dust deposits sh es, as these may leased into the a Local or national posal of this mat employed in the mine which regu Sections 13 and	cuum up spillage and collect in suitable con- al. of dust in the air (i.e., clearing dust surfaces

Section 7: Handling and storage

Precautions for safe handling					
Technical measures	:	Static electricity may accumulate and ignite suspended dust causing an explosion. Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres.			
Local/Total ventilation	:	Use only with adequate ventilation.			
Advice on safe handling	:	Do not swallow.			
		Avoid contact with eyes. Avoid prolonged or repeated contact with skin.			



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Hyg	jiene measures	 Handle in acc practice, base sessment Minimize dust Keep containe Keep away free Take precauti Do not eat, dree Take care to penvironment. If exposure to flushing system place. When using co Wash contare The effective engineering co appropriate do industrial hyg 	proughly after handling. ordance with good industrial hygiene and safety ad on the results of the workplace exposure as- regeneration and accumulation. er closed when not in use. om heat and sources of ignition. onary measures against static discharges. ink or smoke when using this product. orevent spills, waste and minimize release to the chemical is likely during typical use, provide eye ms and safety showers close to the working lo not eat, drink or smoke. inated clothing before re-use. operation of a facility should include review of ontrols, proper personal protective equipment, egowning and decontamination procedures, ene monitoring, medical surveillance and the strative controls.
Cor	nditions for safe storag	ge, including any in	compatibilities
	nditions for safe storage	Store locked	dance with the particular national regulations.
	rerials to avoid	Store in acco	with the following product types:

Section 8: Exposure controls/personal protection

Control parameters

Occupational Exposure Limits

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
Starch	9005-25-8	PEL (long term)	10 mg/m3	SG OEL
		TWA	10 mg/m3	ACGIH
Cellulose	9004-34-6	PEL (long term)	10 mg/m3	SG OEL
		TWA	10 mg/m3	ACGIH
Magnesium stearate	557-04-0	PEL (long term)	10 mg/m3	SG OEL
		TWA (Inhal- able particu- late matter)	10 mg/m3	ACGIH



Flash point



Enrofloxacin Solid Formulation

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				TWA (Res- pirable par- ticulate mat- ter)	3 mg/m3	ACGIH
	Appropriate engineering control measures : Use feasible engineering controls to minimize exposure t compound. All engineering controls should be implemented by facility design and operated in accordance with GMP principles protect products, workers, and the environment.					facility
Indi	vidual protection measu	res	, such as pers	onal protective	equipment (PPE)	
Eye	/face protection	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.				
Res	protection piratory protection	 Work uniform or laboratory coat. If adequate local exhaust ventilation is not available or exposure assessment demonstrates exposures outside the recommended guidelines, use respiratory protection. 				
	-ilter type d protection	:	Particulates ty	pe		
Ν	Material	:	Chemical-resi	stant gloves		
Section	9: Physical and chemica	Inr	onerties			
	-	ı pı	-			
	earance	:	powder			
Colo	bur	:	light orange			
Odo	ur	:	musty			
Odo	our Threshold	:	No data avail	able		
рН		:	Not applicabl	e		
Melt	ing point/freezing point	:	No data avail	able		
Initia rang	al boiling point and boiling je	:	No data avail	able		

: Not applicable





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		explosion limit / Upper bility limit	:	No data available	•
		explosion limit / Lower bility limit	:	No data available	
	Vapour	pressure	:	No data available)
	Relative	e vapour density	:	No data available	
	Relative	e density	:	No data available	
	Density	,	:	No data available)
	Solubili Wat	ty(ies) er solubility	:	No data available)
	Partition octanol	n coefficient: n-	:	Not applicable	
		nition temperature	:	No data available)
	Decom	position temperature	:	No data available	
	Viscosi Visc	ty osity, kinematic	:	No data available	
	Explosi	ve properties	:	Not explosive	
	Oxidizir	ng properties	:	The substance of	r mixture is not classified as oxidizing.
	Molecu	lar weight	:	Not applicable	
	Particle Particle	characteristics size	:	No data available	3

Section 10: Stability and reactivity

Reactivity Chemical stability Possibility of hazardous reac- tions	: :	Not classified as a reactivity hazard. Stable under normal conditions. May form explosive dust-air mixture during processing, han- dling or other means. Can react with strong oxidizing agents.
Conditions to avoid	:	Heat, flames and sparks. Avoid dust formation.
Incompatible materials Hazardous decomposition products	:	Oxidizing agents No hazardous decomposition products are known.





ersion .0	Revision Date: 06.04.2024		0S Number: 46720-00014	Date of last issue: 30.09.2023 Date of first issue: 19.12.2017
ection 1	1: Toxicological inform	atio	on	
Inforn expos	nation on likely routes of sure	:	Inhalation Skin contact Ingestion Eye contact	
	e toxicity			
Harm Prod i	ful if swallowed.			
	e oral toxicity	:	Acute toxicity esti Method: Calculati	mate: 1,000 mg/kg on method
<u>Com</u>	ponents:			
Enro	floxacin:			
Acute	e oral toxicity	:	LD50 (Rabbit): 50)0 - 800 mg/kg
			LD50 (Rat): > 5,0	00 mg/kg
			LD50 (Mouse): >	5,000 mg/kg
Acute	e dermal toxicity	:	LD50 (Rabbit): >	2,000 mg/kg
Starc	h:			
Acute	oral toxicity	:	LD50 (Rat): > 5,0	00 mg/kg
Acute	e dermal toxicity	:	LD50 (Rabbit): >	2,000 mg/kg
Cellu	lose:			
Acute	e oral toxicity	:	LD50 (Rat): > 5,0	00 mg/kg
Acute	inhalation toxicity	:	LC50 (Rat): > 5.8 Exposure time: 4 Test atmosphere:	h
Acute	e dermal toxicity	:	LD50 (Rabbit): >	2,000 mg/kg
Magn	nesium stearate:			
	e oral toxicity	:	Assessment: The icity	00 mg/kg est Guideline 423 substance or mixture has no acute oral to on data from similar materials
Acute	e dermal toxicity	:	LD50 (Rabbit): > Remarks: Based	2,000 mg/kg on data from similar materials





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	in corrosion/irritation t classified based on avai	lable information	
	mponents:		
En	rofloxacin:		
Re	sult	: No skin irritatio	on
	gnesium stearate:		
	ecies sult	: Rabbit : No skin irritatio	nc
	marks		a from similar materials
	rious eye damage/eye ii		
-	t classified based on avai mponents:	liable information.	
En	rofloxacin:		
Re	sult	: Mild eye irritat	ion
	arch:		
	ecies sult	: Rabbit : No eye irritatio	n
Ма	gnesium stearate:		
	ecies sult	: Rabbit : No eye irritatio	
_	marks		a from similar materials
Re	spiratory or skin sensit	isation	
•	in sensitisation t classified based on avai	lable information.	
	spiratory sensitisation t classified based on avai	lable information.	
-	mponents:		
En	rofloxacin:		
Te	st Type	: Maximisation	Test
	posure routes ecies	: Dermal : Guinea pig	
	sult	: Not a skin sen	sitizer.
Sta	arch:		
	st Type	: Maximisation	Test
∎Ex	posure routes	: Skin contact	





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Speci Resu			uinea pig egative	
Magr	esium stearate:			
Test	Type	: M	aximisation T	est
	sure routes	: Sł	kin contact	
Speci			uinea pig	
Metho	bc	: 0	ECD Test Gu	ideline 406
Resu	lt		egative	
Rema	arks	: Ba	ased on data	from similar materials
Germ	cell mutagenicity			
Not c	lassified based on av	ailable info	ormation.	
	ponents:			
Enro	floxacin:			
Geno	toxicity in vitro		est Type: Chr esult: positive	omosomal aberration
Geno	toxicity in vivo	Sp	est Type: Mic becies: Mous esult: negativ	
		ch Sp	est Type: Mar hange becies: Hams esult: negativ	
		Sp	est Type: Chr becies: Rat esult: negativ	omosomal aberration e
Starc	h:			
Geno	toxicity in vitro		est Type: Bac esult: negativ	terial reverse mutation assay (AMES) e
Cellu	lose:			
Geno	toxicity in vitro		est Type: Bac esult: negativ	eterial reverse mutation assay (AMES)
			est Type: In v esult: negativ	itro mammalian cell gene mutation test e
Geno	toxicity in vivo	cy Sr Ar	togenetic ass becies: Mous	e ute: Ingestion



ersion .0	Revision Date: 06.04.2024	SDS Number: 2346720-00014	Date of last issue: 30.09.2023 Date of first issue: 19.12.2017
	esium stearate:		
Geno	toxicity in vitro	Result: negati	vitro mammalian cell gene mutation test ve ed on data from similar materials
			romosome aberration test in vitro D Test Guideline 473
		Result: negati	
		Result: negati	
		Remarks: Bas	ed on data from similar materials
	nogenicity lassified based on avai	lable information.	
Com	oonents:		
Enro	floxacin:		
Speci		: Rat	
	cation Route sure time	: Oral : 2 Years	
Resu		: negative	
Speci	es	: Mouse	
	cation Route	: Oral	
Expos Resu	sure time	: 2 Years : negative	
INESU	it.	. negative	
Cellu	lose:		
Speci		: Rat	
	cation Route sure time	: Ingestion : 72 weeks	
Resu		: negative	
Repr	oductive toxicity		
-	ected of damaging ferti	lity.	
Com	ponents:		
Enro	floxacin:		
	ts on fertility	Species: Rat Application Ro Fertility: LOAE	o-generation study oute: Oral EL: 15 mg/kg body weight s on fertility, alteration in sperm morphology
Effect ment	ts on foetal develop-	: Test Type: De Species: Rat Application Ro	velopment





ersion)	Revision Date: 06.04.2024		S Number: 46720-00014	Date of last issue: 30.09.2023 Date of first issue: 19.12.2017
			Result: Reduce	Toxicity: LOAEL: 210 mg/kg body weight d foetal weight, No teratogenic effects mal toxicity observed.
Repro sessn	oductive toxicity - As- nent	:		of adverse effects on sexual function an n animal experiments.
Cellu	lose:			
Effect	s on fertility	:	Test Type: One Species: Rat Application Rou Result: negative	
Effect ment	s on foetal develop-	:	Test Type: Fert Species: Rat Application Rou Result: negative	
Magn	esium stearate:			
	s on fertility	:	reproduction/de Species: Rat Application Rou Method: OECD Result: negative	Test Guideline 422
Effect ment	s on foetal develop-	:	Species: Rat Application Rou Result: negative	
	- single exposure			
	assified based on avai		information.	
STOT	- repeated exposure			gh prolonged or repeated exposure.

Components:

Enrofloxacin:

5 5	cartilage, Testis Causes damage to organs through prolonged or repeated exposure.
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rsion)	Revision Date: 06.04.2024	SDS Number: 2346720-00014	Date of last issue: 30.09.2023 Date of first issue: 19.12.2017
-	ated dose toxicity		
	oonents:		
	loxacin:	_	
Speci NOAE		: Rat	
LOAE		: 36 mg/kg : 150 mg/kg	
	ation Route	: Oral	
Expos	sure time	: 13 Weeks	
Targe	t Organs	: Testis	
Speci	es	: Dog	
NOAE		: 3 mg/kg	
LOAE		: 9.6 mg/kg	
	ation Route	: Oral : 13 Weeks	
	t Organs	: cartilage	
Speci	es	: Cat	
NOAE	EL	: 25 mg/kg	
	ation Route	: Oral	
Expos Rema	sure time	: 30 Days	duaraa offacta wara rapartad
Rema	1K5	. No significant a	dverse effects were reported
Starc	h:		
Speci		: Rat	
NOAE		: >= 2,000 mg/kg]
Applic	ation Route	: Skin contact : 28 Days	
Metho		: OECD Test Gu	ideline 410
Cellul	ose:		
Speci		: Rat	
NOAE	EL	: >= 9,000 mg/kg]
	ation Route	: Ingestion	
Expos	sure time	: 90 Days	
Magn	esium stearate:		
Speci		: Rat	
NOAE		: > 100 mg/kg	
Applic	ation Route	: Ingestion : 90 Days	
Rema	rks		from similar materials

Not classified based on available information.



ersion 0	Revision Date: 06.04.2024		0S Number: 46720-00014	Date of last issue: 30.09.2023 Date of first issue: 19.12.2017
	rience with human exp ponents:	oosu	ire	
Ingest		:	Symptoms: Ga tem effects, Se	strointestinal disturbance, central nervous synnitivity to light
	2: Ecological informati	ion		
Toxic	-			
	oonents:			
	iloxacin: ity to fish	:	LC50 (Lepomis Exposure time:	s 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:	a magna (Water flea)): 79.9 mg/l 48 h
Toxici plants	ty to algae/aquatic	:	EC50 (Pseudo mg/l Exposure time:	kirchneriella subcapitata (green algae)): 3.1 72 h
			EC50 (Microcy Exposure time:	stis aeruginosa (blue-green algae)): 0.049 mg 5 d
	ctor (Acute aquatic tox-	:	10	
aquat	ity to daphnia and other ic invertebrates (Chron-		NOEC (Daphni Exposure time:	a magna (Water flea)): 9.8 mg/l 21 d
ic toxi	спу)		NOEC (Daphni 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	
Cellu				
Toxici	ty to fish	:	LC50 (Oryzias	latipes (Japanese medaka)): > 100 mg/l



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			Exposure time: 48 Remarks: Based of	3 h on data from similar materials	
II Magn	esium stearate:				
	ity to fish	:	Exposure time: 48 Method: DIN 3841		
	Toxicity to daphnia and other aquatic invertebrates		EL50 (Daphnia magna (Water flea)): > 1 mg/l Exposure time: 47 h Test substance: Water Accommodated Fraction Method: Directive 67/548/EEC, Annex V, C.2. Remarks: Based on data from similar materials No toxicity at the limit of solubility		
Toxici plants	ity to algae/aquatic	:	mg/l Exposure time: 72 Test substance: V Method: OECD Te	Vater Accommodated Fraction est Guideline 201 on data from similar materials	
			mg/l Exposure time: 72 Test substance: V Method: OECD Te	Vater Accommodated Fraction	
Toxici	ity to microorganisms	:	Exposure time: 16 Test substance: V	nas putida): > 100 mg/l 5 h Vater Accommodated Fraction on data from similar materials	
Persi	stence and degradabili	ity			
Comp	oonents:				
Cellu	lose:				
Biode	gradability	:	Result: Readily bi	odegradable.	
	esium stearate: gradability	:	Result: Not biode Remarks: Based o	gradable on data from similar materials	



/ersion 3.0	Revision Date: 06.04.2024	SDS Number: 2346720-00014	Date of last issue: 30.09.2023 Date of first issue: 19.12.2017
	cumulative potential		
Comp	oonents:		
	loxacin: on coefficient: n- ol/water	: log Pow: 0.5	
	esium stearate: on coefficient: n- bl/water	: log Pow: > 4	
Mobili	ity in soil		
Comp	onents:		
Enrof Distrib	loxacin: oution among environ- Il compartments	: Koc: 5.55	
Other	adverse effects		
No da	ta available		
Section 13	B: Disposal considerat	ions	

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

Section 14: Transport information

International Regulations

UNRTDG UN number UN proper shipping name	:	UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,
		N.O.S. (Enrofloxacin)
Transport hazard class(es)	:	9
Packing group	:	
Labels	:	9
Environmental hazards	:	yes
IATA-DGR		
UN/ID No.	:	UN 3077
UN proper shipping name	:	Environmentally hazardous substance, solid, n.o.s. (Enrofloxacin)
Transport hazard class(es)	:	9
Packing group	:	III
Labels	:	Miscellaneous





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Packi aircra	ng instruction (cargo ft)	:	956	
Packi	ng instruction (passen-	:	956	
Environmentally hazardous		:	yes	
IMDG	-Code			
UN n	umber	:	UN 3077	
Prope	er shipping name	:	ENVIRONMENT, N.O.S. (Enrofloxacin)	ALLY HAZARDOUS SUBSTANCE, SOLID,
Trans	port hazard class(es)	:	9	
Packi	ng group	:	III	
Label	S	:	9	
EmS	Code	:	F-A, S-F	
Marin	e pollutant	:	yes	
Trans	sport in bulk according	g to	IMO instruments	

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.

Section 15: Regulatory information

Safety, health and environmental regulations specific for the product in question

Workplace Safety and Health Act and Workplace Safety and Health (General Provisions) Regulations: This product is subjected to the SDS, labelling, PEL and other requirements in the Act/Regulations. Environmental Protection and Management Act and : Not applicable Environmental Protection and Management (Hazardous Substances) Regulations Fire Safety (Petroleum and Flammable Materials) Not applicable : Regulations The components 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	



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	ces of key data used to bile the Safety Data et	:		data, data from raw material SDSs, OECD arch results and European Chemicals Agen- ropa.eu/
	s where changes have be ment by two vertical line		made to the previo	us version are highlighted in the body of this
Date	format	:	dd.mm.yyyy	
Full	text of other abbreviati	ons		
ACG SG (:	Singapore. Workp	eshold Limit Values (TLV) blace Safety and Health (General Provisions) t Schedule Permissible Exposure Limits of 5.
	IH / TWA DEL / PEL (long term)	:	8-hour, time-weig Permissible Expo	hted average sure Level (PEL) Long Term
Land Carc Stan x% r ENC x% g tem; - Int Equi centr cal S	I of Brazil; ASTM - Ame inogen, Mutagen or Re dardisation; DSL - Dome esponse; ELx - Loading S - Existing and New C growth rate response; EF GLP - Good Laboratory ernational Air Transport pment of Ships carrying ration; ICAO - Internation Substances in China; IM	rica pro stic g ra her RG - Pra S Da Da Da Da	n Society for the T ductive Toxicant; Substances List (C te associated with nical Substances (Emergency Respo ctice; IARC - Intern ssociation; IBC - I ngerous Chemicals Civil Aviation Organ - International Ma	s; ANTT - National Agency for Transport by esting of Materials; bw - Body weight; CMR - DIN - Standard of the German Institute for Canada); ECx - Concentration associated with x% response; EmS - Emergency Schedule; lapan); ErCx - Concentration associated with onse Guide; GHS - Globally Harmonized Sys- ational Agency for Research on Cancer; IATA international Code for the Construction and in Bulk; IC50 - Half maximal inhibitory con- ization; IECSC - Inventory of Existing Chemi- ritime Dangerous Goods; IMO - International I Health Law (Japan); ISO - International Or-

h ۱I 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





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