



Version	Revision Date:	SDS Number:	Date of last issue: 2024/04/06
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1. PRODUCT AND COMPANY IDENTIFICATION

Chemical product name	:	Enrofloxacin (2.5%) Formulation
Supplier's company name, ac Company name of supplier		ess and phone number MSD
Address	:	Kumagaya, Saitama Prefecture , Xicheng 810 MSD Co., Ltd. Menuma factory
Telephone	:	048-588-8411
E-mail address	:	EHSDATASTEWARD@msd.com
Emergency telephone number	:	+1-908-423-6000

Recommended use of the chemical and restrictions on use

Recommended use	:	Veterinary product
Restrictions on use	:	Not applicable

2. HAZARDS IDENTIFICATION

GHS classification of chemical product Skin sensitisation : 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.			





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Preca	utionary statements	P272 Contami the workplace. P273 Avoid re P280 Wear pro Response: P302 + P352 I P314 Get med P333 + P313 I vice/ attention.	lease to the environment. otective gloves. F ON SKIN: Wash with plenty of water. lical advice/ attention if you feel unwell. f skin irritation or rash occurs: Get medical ad- Take off contaminated clothing and wash it before
		Disposal:	of contents/ container to an approved waste

Other hazards which do not result in classification None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture	: Mixture	

Com	ponents
00111	ponento

••••••••••••••••••••••••••••••••••••••			
Chemical name	CAS-No.	Concentration (% w/w)	ENCS No.
Enrofloxacin	93106-60-6	>= 2.5 - < 3	-
Benzyl alcohol	100-51-6	>= 1 - < 10	3-1011

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.



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Most important symptoms and effects, both acute and delayed Protection of first-aiders Notes to physician		May cause an al May cause dama exposure. First Aid respond and use the reco when the potenti	ntion. roughly with water. lergic skin reaction. age to organs through prolonged or repeated ders should pay attention to self-protection, ommended personal protective equipment al for exposure exists (see section 8). tically and supportively.
5. FIREFIGHTING MEASU	RES		
Suitable extinguishing media		Water spray Alcohol-resistant Carbon dioxide (Dry chemical	
Unsuitable extinguishing media		None known.	
Specific hazards during fire- fighting		Exposure to combustion products may be a hazard to health.	
Hazardous combustior ucts	n prod- :	Carbon oxides	
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 o so. Evacuate area.	
Special protective equi for firefighters	pment :		e, wear self-contained breathing apparatus. otective equipment.
6. ACCIDENTAL RELEASI	E MEASU	RES	
	Personal precautions, protec- : Use personal protective equipment. tive equipment and emer- gency procedures Use personal protective equipment. Follow safe handling advice (see section 7) and personal tective equipment recommendations (see section 8).		lling advice (see section 7) and personal pro-

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
		cannot be contained.

Methods and materials for : Soak up with inert absorbent material.



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conta	inment and cleaning up	ment to keep i be pumped, st Clean up rema bent. Local or natior posal of this m employed in th mine which re Sections 13 an	s, provide dyking or other appropriate contain- material from spreading. If dyked material can core recovered material in appropriate container. aining materials from spill with suitable absor- nal regulations may apply to releases and dis- naterial, as well as those materials and items ne cleanup of releases. You will need to deter- gulations are applicable. nd 15 of this SDS provide information regarding r national requirements.
7. HANDL	ING AND STORAGE		
Hand	lling		
Techr	nical measures		ng measures under EXPOSURE PERSONAL PROTECTION section.
Advic	/Total ventilation e on safe handling lance of contact ene measures	 Do not get on Do not breathe Do not swallow Avoid contact Wash skin tho Handle in accor practice, base sessment Do not eat, dri Take care to p environment. Oxidizing ager If exposure to flushing system place. When using do 	with eyes. roughly after handling. ordance with good industrial hygiene and safety d on the results of the workplace exposure as- nk or smoke when using this product. orevent spills, waste and minimize release to the
Stora	-	workplace. Wash contami The effective of engineering co appropriate de industrial hygio use of adminis	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.
	itions for safe storage rials to avoid	Store in accor	rly labelled containers. dance with the particular national regulations. <i>i</i> th the following product types: ng agents
Packa	aging material	: Unsuitable ma	iterial: None known.



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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Threshold limit value and permissible exposure limits for each component in the work environment

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Concentra- tion standard / Permissible con- centration	Basis
Enrofloxacin	93106-60-6	TWA	0.2 mg/m3 (OEB 2)	Internal
Benzyl alcohol	100-51-6	OEL-C	25 mg/m3	JP OEL JSOH
	Further information: Skin sensitizing agent; Group 2 substances which probably induce allergic reactions in humans.			
Engineering measures			controls and manufac	

Engineering measures .	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 equipmer	nt	
Respiratory protection :	If adequate local exhaust ventilation is not available or expo- sure assessment demonstrates exposures outside the rec- ommended guidelines, use respiratory protection.	
Filter type :	Combined particulates and organic vapour type	
Hand protection	Ob anning the sister of all successions	
Material :	Chemical-resistant gloves	
Remarks : Eye protection :	Impermeable protective gloves 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.	
Skin and body protection :	Work uniform or laboratory coat.	

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	:	liquid
Colour	:	No data available
Odour	:	No data available
Odour Threshold	:	No data available





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N	lelting po	oint/freezing point	:	No data available)
	Boiling point, initial boiling point and boiling range		:	No data available	
F	lammab	ility (solid, gas)	:	Not applicable	
F	lammab	ility (liquids)	:	No data available)
L	Lower explosion limit and upper Upper explosion limit / Up- per flammability limit				
		explosion limit / flammability limit	:	No data available	
F	lash poir	nt	:	No data available)
D	ecompo	sition temperature	:	No data available)
р	Н		:	No data available	9
E	vaporati	on rate	:	No data available	9
A	Auto-ignition temperature		:	No data available)
V	′iscosity Viscos	ity, kinematic	:	No data available	9
S	olubility(Water	(ies) solubility	:	No data available	
	artition c ctanol/w	coefficient: n- ater	:	Not applicable	
V	apour pi	ressure	:	No data available)
D		nd / or relative densi /e density	ty :	No data available	9
	Densit	У	:	No data available	
R	elative v	apour density	:	No data available)
E	xplosive	properties	:	Not explosive	
C)xidizing	properties	:	The substance of	mixture is not classified as oxidizing.
Р	article cl Particl	haracteristics e size	:	Not applicable	



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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.

11. TOXICOLOGICAL INFORMATION

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

Acute toxicity

Not classified based on available 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
Acute inhalation toxicity	:	LC50 (Rat): > 5.4 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403 Assessment: The substance or mixture has no acute inhala- tion toxicity





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Skin	corrosion/irritation		
	lassified based on av	ailable information.	
Com	ponents:		
Enro	floxacin:		
Resu	lt	: No skin irrita	tion
Benz	yl alcohol:		
Spec		: Rabbit	
Meth Resu		: OECD Test (: No skin irrita	Guideline 404 tion
	ous eye damage/eye		
	lassified based on av	ailable information.	
	ponents:		
	floxacin:		
Resu	lt	: Mild eye irrita	ation
Benz	yl alcohol:		
Spec		: Rabbit	
Resu Meth			yes, reversing within 21 days Guideline 405
Resp	piratory or skin sens	itisation	
-	sensitisation		
	cause an allergic skin	reaction.	
	piratory sensitisation		
-	lassified based on av		
Com	ponents:		
Enro	floxacin:		
Test		: Maximisation	n Test
	sure routes	: Dermal	
Spec Resu		: Guinea pig : Not a skin se	ensitizer.
Benz	yl alcohol:		
Test	Туре		at insult patch test (HRIPT)
	sure routes	: Skin contact	
Spec Resu		: Humans : positive	
		·	r evidence of low to moderate skin sensitisatio
I	ssment	rate in huma	



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Germ cell mutagenicity

Not classified based on available information.

Components:

Enrofloxacin:	
Genotoxicity in vitro	: Test Type: Chromosomal aberration Result: positive
Genotoxicity in vivo	: Test Type: Micronucleus test Species: Mouse Result: negative
	Test Type: Mammalian bone marrow sister chromatid ex- change Species: Hamster Result: negative
	Test Type: Chromosomal aberration Species: Rat Result: negative
Benzyl alcohol:	
Genotoxicity in vitro	: Test Type: Bacterial reverse mutation assay (AMES) Result: negative
Genotoxicity in vivo	 Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay) Species: Mouse Application Route: Intraperitoneal injection

Result: negative

Carcinogenicity

Not classified based on available information.

Components:

Enrofloxacin:

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



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Specie Applic	cation Route sure time od	:	Mouse Ingestion 103 weeks OECD Test Gui negative	deline 451
Not cl	oductive toxicity assified based on avail ponents:	able	information.	
	loxacin: s on fertility	:	Species: Rat Application Rou Fertility: LOAEL	-generation study te: Oral : 15 mg/kg body weight on fertility, alteration in sperm morphology
Effect: ment	s on foetal develop-	:	Result: Reduce Remarks: Mater Test Type: Deve Species: Rabbit	te: Oral Toxicity: LOAEL: 210 mg/kg body weight d foetal weight, No teratogenic effects rnal toxicity observed. elopment
Repro	oductive toxicity - As-	:	Result: No fetot Some evidence	Toxicity: NOAEL: 25 mg/kg body weight oxicity, No teratogenic effects of adverse effects on sexual function and n animal experiments.
ll Benzy	yl alcohol:			
	s on fertility	:	Species: Rat Application Rou Result: negative	
Effect: ment	s on foetal develop-	:	Test Type: Emb Species: Mouse Application Rou Result: negative	te: Ingestion

STOT - single exposure

Not classified based on available information.





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May o Com	ponents:) through prolonged or repeated exposure.
	floxacin:		
	et Organs ssment	: cartilage, Te : Causes dam exposure.	stis age to organs through prolonged or repeated
Repe	ated dose toxicity		
<u>Com</u>	ponents:		
Enro	floxacin:		
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	
Spec NOA Appli Expo Rema	EL cation Route sure time	: Cat : 25 mg/kg : Oral : 30 Days : No significar	at adverse effects were reported
Benz	yl alcohol:		
Spec NOA Appli	ies EL cation Route sure time	: 28 Days	ust/mist/fume) Guideline 412
Aspi	ration toxicity		
-	lassified based on ava	ilable information.	
	rience with human ex		
Com	ponents:		
Enro	floxacin:		

: Symptoms: Gastrointestinal disturbance, central nervous sys-





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	DGICAL INFORMATIO		tem effects, Sens	itivity to light
		N		
Ecoto	oonents:			
	loxacin:			
	ty to fish	:	LC50 (Lepomis m Exposure time: 9	nacrochirus (Bluegill sunfish)): 79.5 mg/l 6 h
			LC50 (Oncorhynd Exposure time: 9	chus mykiss (rainbow trout)): > 196 mg/l ວິ h
			LC50 (Oryzias lat Exposure time: 9	ipes (Japanese medaka)): > 100 mg/l 5 h
	ty to daphnia and other c invertebrates	:	EC50 (Hyalella a: Exposure time: 9	zteca (Amphipod)): > 206 mg/l 5 h
			EC50 (Daphnia n Exposure time: 4	nagna (Water flea)): 79.9 mg/l 3 h
Toxici plants	ty to algae/aquatic	:	EC50 (Pseudokir mg/l Exposure time: 72	chneriella subcapitata (green algae)): 3.1 2 h
			EC50 (Microcysti Exposure time: 5	s aeruginosa (blue-green algae)): 0.049 mg d
	ctor (Acute aquatic tox-	:	10	
aquati	ty to daphnia and other ic invertebrates (Chron-	:	NOEC (Daphnia Exposure time: 2	magna (Water flea)): 9.8 mg/l 1 d
ic toxi	city)		NOEC (Daphnia Exposure time: 2	magna (Water flea)): 5 mg/l 1 d
			LOEC (Daphnia r Exposure time: 2	nagna (Water flea)): 15 mg/l 1 d
M-Fac toxicit	ctor (Chronic aquatic y)	:	10	
	/l alcohol:			
Toxici	ty to fish	:	LC50 (Pimephale Exposure time: 9	s promelas (fathead minnow)): 460 mg/l 5 h
	ty to daphnia and other ic invertebrates	:	EC50 (Daphnia n Exposure time: 4	nagna (Water flea)): 230 mg/l 3 h





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			Method: OECD To	est Guideline 202
Toxic plants	ity to algae/aquatic s	:	EC50 (Pseudokiro mg/l Exposure time: 72 Method: OECD To	
			NOEC (Pseudokin mg/l Exposure time: 72 Method: OECD To	
	ity to daphnia and other tic invertebrates (Chron- icity)	:	NOEC (Daphnia r Exposure time: 21 Method: OECD Te	
Persi	istence and degradabili	ity		
Com	ponents:			
	yl alcohol: egradability	:	Result: Readily bi Biodegradation: S Exposure time: 14	92 - 96 %
Bioa	ccumulative potential			
Com	ponents:			
Partit	floxacin: ion coefficient: n- iol/water	:	log Pow: 0.5	
Partit	yl alcohol: ion coefficient: n- iol/water	:	log Pow: 1.05	
Mobi	lity in soil			
Com	ponents:			
Distri	floxacin: bution among environ- al compartments	:	Koc: 5.55	
	rdous to the ozone laye	ər		
	r adverse effects ata available			



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13. DISPOSAL CONSIDERATIONS

Disposal methods		
Waste from residues	:	Dispose of in accordance with local regulations.
		Do not dispose of waste into sewer.
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.

14. TRANSPORT INFORMATION

International Regulations

UNRTDG		
UN number	:	UN 3082
Proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Olasa	_	0
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. ()
Class	:	9
Packing group	:	III
Labels	:	Miscellaneous
Packing instruction (cargo	:	964
aircraft)		
Packing instruction (passen-	:	964
ger aircraft)		
Environmentally hazardous	:	yes
IMDG-Code		
UN number		UN 3082
Proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
r toper shipping hame	•	N.O.S.
		()
Class		9
Packing group	÷	
Labels	÷	9
EmS Code	÷	F-A, S-F
Marine pollutant	:	yes
	-	y

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

Not applicable for product as supplied.

National Regulations

Refer to section 15 for specific national regulation.



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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.

ERG Code : 171

15. REGULATORY INFORMATION

Related Regulations

Fire Service Law

Not applicable to dangerous materials / designated flammables.

Chemical Substance Control Law

Not applicable for Specified Chemical Substance, Monitoring Chemical Substance and Priority Assessment Chemical Substance.

Industrial Safety and Health Law

Harmful Substances Prohibited from Manufacture

Not applicable

Harmful Substances Required Permission for Manufacture

Not applicable

Substances Prevented From Impairment of Health

Not applicable

Circular concerning Information on Chemicals having Mutagenicity - Annex 2: Information on Existing Chemicals having Mutagenicity

Not applicable

Circular concerning Information on Chemicals having Mutagenicity - Annex 1: Information on Notified Substances having Mutagenicity

Not applicable

Substances Subject to be Notified Names

Article 57-2 (Enforcement Order Table 9)

Chemical name	Concentration (%)	Remarks
Benzyl alcohol	>=1 - <10	-

Substances Subject to be Indicated Names

Article 57 (Enforcement Order Article 18)

Chemical name	Remarks	
benzyl alcohol	_	

Skin and Eye Damage Substances for PPE Requirements (ISHL MO Art. 594-2)

Chemical name

benzyl alcohol





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tions)	-	s (Article 577-2 of the	Occupational Health and Safety Regula-
	ance on Preventior	n of Hazards Due to S	pecified Chemical Substances
	ance on Preventior	n of Lead Poisoning	
	ance on Preventior	n of Tetraalkyl Lead P	oisoning
	ance on Preventior	n of Organic Solvent F	Poisoning
	cement Order of the tances)	e Industrial Safety an	d Health Law - Attached table 1 (Dangerou
Not a	oplicable		
Poiso	onous and Deleterio	us Substances Contr	ol Law
Not a	oplicable		
viron	ment and Promotio		of Specific Chemical Substances in the E the Management Thereof
Not a	oplicable		
-	Pressure Gas Safet	y Act	
	oplicable		
-	sive Control Law		
Not a	oplicable		
Misce		substances and articles nd its Attached Table 1	s (Article 2 and 3 of rules on shipping and sto
Aviati	ion Law		
	Ilaneous dangerous aw and its Attached		s (Article 194 of The Enforcement Rules of Av
Marin	e Pollution and Sea	a Disaster Prevention	etc Law
Bulk t	ransportation	: Noxious liquid	substance(Category Z)
	transportation	: Classified as n	
	otics and Psychotro		-
Narco Not aj Speci	tic or Psychotropic R oplicable fic Narcotic or Psych	aw Material (Export / I	mport Permission) Export / Import permission)
	oplicable		
	e Disposal and Pub	lia Claanding Law	

The components of this product are reported in the following inventories:



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

16. OTHER INFORMATION

In this SDS, if the concentration of substances subject to notification under the Industrial Safety and Health Law is indicated as a range, it includes cases where it is a trade secret.

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/

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

Date format	:	yyyy/mm/dd	
Full text of other abbreviations			
JP OEL JSOH	:	Japan. The Japan Society for Occupational Health. Recommendation of Occupational Exposure Limits	
JP OEL JSOH / OEL-C	:	Occupational Exposure Limit-Ceiling	

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR -Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evalua-





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tion, 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.

JP / EN