

Version 4.6	Revision Date: 30.09.2023		9S Number: 5860-00018	Date of last issue: 04.04.2023 Date of first issue: 28.06.2016		
SECTION	1. IDENTIFICATION					
Produ	Product name		Orbifloxacin Liquid Formulation			
Manu	afacturer or supplier's	s deta	ils			
Comp	Company		MSD			
Address		:	Talcahuano 750, 6th floor, Ciudad Autonoma Buenos Aires, Argentina C1013AAP			
Telep	Telephone		908-740-4000			
Emer	Emergency telephone		1-908-423-6000			
E-ma	E-mail address		EHSDATASTEWARD@msd.com			
Reco	mmended use of the	chem	nical and restricti	ons on use		
Recommended use Restrictions on use		:	Veterinary product Not applicable			

### SECTION 2. HAZARDS IDENTIFICATION

GHS Classification Reproductive toxicity	:	Category 2
Specific target organ toxicity - repeated exposure (Oral)	:	Category 2 (Eye)
GHS label elements Hazard pictograms	:	
Signal Word	:	Warning
Hazard Statements	:	H361d Suspected of damaging the unborn child. H373 May cause damage to organs (Eye) through prolonged or repeated exposure if swallowed.
Precautionary Statements	:	<ul> <li>Prevention:</li> <li>P201 Obtain special instructions before use.</li> <li>P202 Do not handle until all safety precautions have been read and understood.</li> <li>P260 Do not breathe mist or vapors.</li> <li>P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.</li> </ul>



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		<b>Response:</b> P308 + P313	IF exposed or concerned: Get medical advice/

attention.

### Storage:

P405 Store locked up.

#### Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards which do not result in classification

None known.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

#### Components

Chemical name	CAS-No.	Concentration (% w/w)
Orbifloxacin	113617-63-3	>= 3 -< 5
Lactic acid	50-21-5	>= 1 -< 3
Sodium hydroxide	1310-73-2	>= 1 -< 2

#### **SECTION 4. FIRST AID MEASURES**

General advice	:	In the case of accident or if you feel unwell, seek medical advice immediately. When symptoms persist or in all cases of doubt seek medical advice.
If inhaled	:	If inhaled, remove to fresh air. Get medical attention.
In case of skin contact	:	In case of contact, immediately flush skin with soap and plenty of water. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.
In case of eye contact	:	
If swallowed	:	If swallowed, DO NOT induce vomiting. Get medical attention. Rinse mouth thoroughly with water.
Most important symptoms and effects, both acute and delayed Protection of first-aiders	:	Suspected of damaging the unborn child. May cause damage to organs through prolonged or repeated exposure if swallowed.
Notes to physician	:	Treat symptomatically and supportively.

**SECTION 5. FIRE-FIGHTING MEASURES** 



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	Suitable extinguishing media		:	: Water spray Alcohol-resistant foam Carbon dioxide (CO2)				
	Unsuita media	ble extinguishing	:	Dry chemical None known.				
		c hazards during fire	:	Exposure to combustion products may be a hazard to health				
	Hazard ucts	ous combustion prod-	:	Carbon oxides Metal oxides				
	Specific ods	c extinguishing meth-	:	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Use water spray to cool unopened containers. Remove undamaged containers from fire area if it is safe to so.				
	Special for fire-f	protective equipment fighters	:		e, wear self-contained breathing apparatus. rective equipment.			
SEC	TION 6.	ACCIDENTAL RELE	ASE	EMEASURES				
	tive equ	al precautions, protec- upment and emer- procedures	:	Follow safe handl	ective equipment. ing advice (see section 7) and personal ent recommendations (see section 8).			
	Environ	mental precautions	:	Prevent spreading oil barriers). Retain and dispos	akage or spillage if safe to do so. g over a wide area (e.g., by containment or se of contaminated wash water. should be advised if significant spillages			
		ls and materials for ment and cleaning up	:	For large spills, procontainment to kee can be pumped, so container. Clean up remaining absorbent. Local or national in disposal of this more employed in the co determine which in Sections 13 and 1	t absorbent material. rovide diking or other appropriate ep material from spreading. If diked material store recovered material in appropriate ng materials from spill with suitable regulations may apply to releases and aterial, as well as those materials and items leanup of releases. You will need to regulations are applicable. 5 of this SDS provide information regarding tional requirements.			

### SECTION 7. HANDLING AND STORAGE

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 breathe mist or vapors.



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		<ul> <li>Do not swallow.</li> <li>Avoid contact with eyes.</li> <li>Avoid prolonged or repeated contact with skin.</li> <li>Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure assessment</li> <li>Take care to prevent spills, waste and minimize release to the environment.</li> <li>Keep in properly labeled containers.</li> <li>Store locked up.</li> <li>Store in accordance with the particular national regulations.</li> <li>Do not store with the following product types:</li> <li>Strong oxidizing agents</li> <li>Gases</li> </ul>				

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ingioaionio man nompi									
Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis					
Orbifloxacin	113617-63-3	TWA	0.2 mg/m3 (OEB 2)	Internal					
Sodium hydroxide	1310-73-2	CMP-C	2 mg/m <sup>3</sup>	AR OEL					
		С	2 mg/m <sup>3</sup>	ACGIH					

**Engineering measures** : Use appropriate engineering controls and manufacturing

### Ingredients with workplace control parameters

	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	
Respiratory protection :	If adequate local exhaust ventilation is not available or exposure assessment demonstrates exposures outside the recommended guidelines, use respiratory protection.
Filter type : Hand protection	Combined particulates and organic vapor type
Material :	Chemical-resistant gloves
Eye 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.
Skin and body protection : Hygiene measures :	Work uniform or laboratory coat. 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.



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			The effective oper engineering contro appropriate degov	ed clothing before re-use. ration of a facility should include review of ols, proper personal protective equipment, vning and decontamination procedures, monitoring, medical surveillance and the ive controls.
	N 9. PHYSICAL AND CHE	EMIC		3
	earance	:	suspension	
Colc		:	light brown	
Odo		:	odorless	
Odo	r Threshold	:	No data available	
рН		:	No data available	)
Melt	ing point/freezing point	:	No data available	)
Initia rang	al boiling point and boiling Je	:	No data available	)
Flas	h point	:	No data available	9
Eva	poration rate	:	No data available	)
Flan	nmability (solid, gas)	:	Not applicable	
Flan	nmability (liquids)	:	No data available	)
	er explosion limit / Upper mability limit	:	No data available	•
	er explosion limit / Lower mability limit	:	No data available	
Vap	or pressure	:	No data available	)
Rela	ative vapor density	:	No data available	)
Rela	ative density	:	No data available	)
Den	sity	:	No data available	9
	ibility(ies) Vater solubility	:	No data available	•
	ition coefficient: n-	:	No data available	)
	nol/water pignition temperature	:	No data available	9
Dec	omposition temperature	:	No data available	)



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Viscosity Viscosity, kinematic Explosive properties		:	No data availa Not explosive	ble	
Oxidizing properties Molecular weight		:	The substance	e or mixture is not classified as oxidizing.	
Particle size :		:	No data available		

### SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	Not classified as a reactivity hazard.
Chemical stability	:	Stable under normal conditions.
Possibility of hazardous reac- tions	:	Can react with strong oxidizing agents.
Conditions to avoid	:	None known.
Incompatible materials	:	Oxidizing agents
Hazardous decomposition products	:	No hazardous decomposition products are known.

### SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of : exposure	Inhalation Skin contact Ingestion Eye contact
Acute toxicity	
Not classified based on available	information.
Product:	
Acute oral toxicity :	Acute toxicity estimate: > 5.000 mg/kg Method: Calculation method
Acute inhalation toxicity :	Acute toxicity estimate: > 10 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: Calculation method
Components:	
Orbifloxacin:	
Acute oral toxicity :	LD50 (Rat): > 3.000 mg/kg Remarks: No mortality observed at this dose.
	LD50 (Mouse): > 2.000 mg/kg Remarks: No mortality observed at this dose.
	LD50 (Dog): > 600 mg/kg Symptoms: Vomiting



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			Remarks: No mor	tality observed at this dose.	
Acute	inhalation toxicity	:	Remarks: No data	a available	
Acute	dermal toxicity	:	Remarks: No data	a available	
	toxicity (other routes of istration)	:	LD50 (Rat): > 200 Application Route		
			LD50 (Mouse): 50 Application Route		
			LD50 (Rat): 233 n Application Route		
			LD50 (Mouse): 25 Application Route		
Lactic	acid:				
Acute	oral toxicity	:	LD50 (Rat): > 2.00 Remarks: Based of	00 mg/kg on data from similar materials	
Acute	inhalation toxicity	:		h dust/mist	
Acute	dermal toxicity	:	toxicity	2.000 mg/kg substance or mixture has no acute dermal on data from similar materials	
Sodiu	m hydroxide:				
Acute	inhalation toxicity	:	Assessment: Corr	osive to the respiratory tract.	
Skin d	orrosion/irritation				
Not cla	assified based on availa	ble	information.		
<u>Produ</u>					
Specie Result		:	Rabbit No skin irritation		
<u>Comp</u>	onents:				
Orbifl	oxacin:				
<b>•</b> ••••		:	Rabbit		
Specie Metho	d	•	Draize Test No skin irritation		



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	Species Method Result Remarks		<ul> <li>Rabbit</li> <li>OECD Test Guideline 404</li> <li>Corrosive after 1 to 4 hours of exposure</li> <li>Based on data from similar materials</li> </ul>						
	<b>Sodiun</b> Result	n hydroxide:	: Corrosive after 3 minutes or less of exposure						
		<b>s eye damage/eye irr</b> ssified based on availa							
			une						
	Produce Species Result		:	Rabbit Mild eye irritation					
	Compo	onents:							
	Orbiflo	xacin:							
	Species	5	:	Rabbit					
	Result Method	I	:	Mild eye irritation Draize Test					
	Lactic	acid:							
	Species	3	:	Chicken eye					
	Remarl	<s< td=""><td>:</td><td>Based on data fro</td><td>m similar materials</td></s<>	:	Based on data fro	m similar materials				
	Result		:	Irreversible effects	s on the eye				
	Sodiun	n hydroxide:							
	Result	-	:	Irreversible effects	s on the eye				
	Remarl	٢S	:	Based on skin cor	rosivity.				
	Respiratory or skin sensitization								
	Skin se	ensitization							
	Not cla	ssified based on availa	able	information.					
	-	atory sensitization ssified based on availa	able	information.					
	Produc	<u>:t:</u>							
	Test Ty		:	Magnusson-Kligm	an-Test				
		of exposure	:	Dermal					
	Species Result	5	:	Guinea pig Not a skin sensitiz	zer.				
	Compo	onents:							
	Orbiflo	xacin:							
	Test Ty		:	Maximization Tes	t				
	Routes	of exposure	:	Dermal					



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Spec Resu		:	Guinea pig Not a skin sensiti:	zer.
Test	es of exposure ies It	: : : : : :	Buehler Test Skin contact Guinea pig negative Based on data fro	om similar materials
Test	es of exposure	::	Human repeat ins Skin contact negative	sult patch test (HRIPT)
	<b>n cell mutagenicity</b> lassified based on avai	lable	information.	
Com	ponents:			
	<b>loxacin:</b> toxicity in vitro	:	Test Type: Bacter Result: equivocal	rial reverse mutation assay (AMES)
			Test Type: Mouse Result: positive Test Type: Chron Test system: Hun Result: positive	nosomal aberration
Geno	toxicity in vivo	:	Test Type: Micror Species: Mouse Cell type: Bone m Application Route Result: negative	
			Test Type: unsch Species: Rat Cell type: Liver ce Application Route Result: negative	
	n cell mutagenicity - ssment	:	Weight of evidend cell mutagen.	ce does not support classification as a germ
	<b>c acid:</b> toxicity in vitro	:	Method: OECD T Result: negative	rial reverse mutation assay (AMES) est Guideline 471 on data from similar materials



/ersion 6	Revision Date: 30.09.2023		DS Number: 5860-00018	Date of last issue: 04.04.2023 Date of first issue: 28.06.2016
			Method: OECD T Result: negative	o mammalian cell gene mutation test est Guideline 476 on data from similar materials
			Method: OECD T Result: negative	nosome aberration test in vitro est Guideline 473 on data from similar materials
	<b>ogenicity</b> ssified based on availa	ble	information.	
<u>Comp</u>	onents:			
Orbiflo	oxacin:			
	ation Route ure time	: : : : : : : : : : : : : : : : : : : :	Rat Oral 2 Years 200 mg/kg body v negative	weight
	ation Route ure time	:	Mouse Oral 2 Years 200 mg/kg body v negative	weight
Lactic	acid:			
Specie Applica	s ation Route ure time	: : : : : : : : : : : : : : : : : : : :	Rat Ingestion 2 Years negative Based on data fro	om similar materials
Damma				
-	ductive toxicity cted of damaging the u	nbo	rn child	
	onents:			
	oxacin:			
	on fertility	:	Species: Rat Application Route General Toxicity I	Parent: NOAEL: 50 mg/kg body weigh Development: NOAEL: 50 mg/kg body
Effects	on fetal development	:	Species: Rat Application Route Embryo-fetal toxic	vo-fetal development e: Oral city.: LOAEL: 333 mg/kg body weight genic effects., Embryotoxic effects and
			10 / 16	



ersion 6	Revision Date: 30.09.2023		DS Number: 5860-00018	Date of last issue: 04.04.2023 Date of first issue: 28.06.2016		
			adverse effects of maternally toxic	on the offspring were detected only at high doses		
			Species: Rabbit Application Rout General Toxicity Embryo-fetal tox Result: No effect Embryotoxic effe	Maternal: NOAEL: 20 mg/kg body weight icity.: NOAEL: 60 mg/kg body weight is on early embryonic development., icts and adverse effects on the offspring we high maternally toxic doses, Reduced		
Repro sessm	oductive toxicity - As- nent	:	: Some evidence of adverse effects on development, base animal experiments.			
	<b>c acid:</b> s on fetal development	:	Test Type: Embr Species: Mouse Application Rout Result: negative	yo-fetal development e: Ingestion		
	<b>-single exposure</b> assified based on availa	ble	information.			
	<b>-repeated exposure</b> ause damage to organs	E (Ey	/e) through prolon	ged or repeated exposure if swallowed.		
<u>Produ</u>	uct:					
	t Organs ssment	:	Eye May cause dama exposure.	age to organs through prolonged or repeate		
Repe	ated dose toxicity					
<u>Produ</u>	<u>uct:</u>					
	EL EL cation Route sure time	:	Dog 22,5 mg/kg 37,5 mg/kg Oral 30 Days Gastrointestinal o	disturbance		
Speci LOAE Applic		::	Dog 75 mg/kg Oral			



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	sure time otoms	<ul><li>10 Days</li><li>Salivation, Gastrointestinal disturbance, Vomiting</li></ul>
Expo Targe		<ul> <li>Cat</li> <li>45 mg/kg</li> <li>Oral</li> <li>30 Days</li> <li>Eye</li> <li>Salivation, Lachrymation, Gastrointestinal disturbance, Liver disorders</li> </ul>
Com	ponents:	
Spec NOA LOAE Appli Expo	EL	: Rat : 20 mg/kg : 80 mg/kg : Oral : 3 Months : Testis, Liver, Kidney, spleen
	EL	<ul> <li>Mouse</li> <li>80 mg/kg</li> <li>250 mg/kg</li> <li>Oral</li> <li>3 Months</li> </ul>
Expo Targe	EL EL cation Route sure time et Organs otoms	<ul> <li>Juvenile dog</li> <li>50 mg/kg</li> <li>250 mg/kg</li> <li>Oral</li> <li>14 Days</li> <li>Heart, Bone</li> <li>Gastrointestinal disturbance</li> <li>mortality observed</li> </ul>
Expo	EL EL cation Route sure time et Organs	<ul> <li>Juvenile dog</li> <li>2 mg/kg</li> <li>3 mg/kg</li> <li>Oral</li> <li>90 Days</li> <li>Bone</li> <li>No significant adverse effects were reported</li> </ul>
		: Dog : 37,5 mg/kg : Oral : 30 Days
Expo	EL	<ul> <li>Cat</li> <li>7,5 mg/kg</li> <li>22,5 mg/kg</li> <li>Oral</li> <li>1 Months</li> <li>Gastrointestinal disturbance</li> </ul>



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Expos Rema Specie LOAE	es L ation Route ure time rks es L	:	Rat > 100 mg/kg Ingestion 13 Weeks Based on data Rat 886 mg/kg Skin contact	from similar materials
Expos	ation Route ure time ation toxicity	:	13 Weeks	
Not cla	assified based on availa			
-	onents:	031	ii e	
	oxacin:			
Ingest	ion	:	disturbance, liv	ntral nervous system effects, Gastrointestina er function change, anaphylaxis, Rash cause photosensitization.
	12. ECOLOGICAL INFO	ORN	MATION	
Ecoto	xicity			
	onents:			
Lactic Toxicit	: <b>acid:</b> ty to fish	:	Exposure time: Method: OECD	rio (zebra fish)): > 100 mg/l 96 h Test Guideline 203 d on data from similar materials
	ty to daphnia and other c invertebrates	:	Exposure time: Method: OECD	n magna (Water flea)): > 100 mg/l 48 h Test Guideline 202 ed on data from similar materials
Toxicit plants	ty to algae/aquatic	:	mg/l Exposure time: Method: OECD Remarks: Base	okirchneriella subcapitata (green algae)): > 1 72 h Test Guideline 201 od on data from similar materials okirchneriella subcapitata (green algae)): > 1



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То	Toxicity to microorganisms			•
Per	sistence and degradabi	lity		
Co	mponents:			
	t <b>ic acid:</b> degradability	:	Result: Not readi Remarks: Based	ly biodegradable. on data from similar materials
Bio	accumulative potential			
Co	mponents:			
Par	t <b>ic acid:</b> tition coefficient: n- anol/water	:	log Pow: -0,62	
	<b>bility in soil</b> data available			
•	<b>her adverse effects</b> data available			

### SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods		
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 handling site for recycling or disposal. If not otherwise specified: Dispose of as unused product.

### **SECTION 14. TRANSPORT INFORMATION**

#### International Regulations

**UNRTDG** Not regulated as a dangerous good

IATA-DGR Not regulated as a dangerous good

### IMDG-Code

Not regulated as a dangerous good

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

Not applicable for product as supplied.

Special precautions for user Not applicable





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Safet mixtu		mental regulations/le	gislatio	n specific for the substance or				
Arger Regis	ntina. Carcinogenic Sub stry.	ostances and Agents	:	Not applicable				
Control of precursors and essential chemicals for the : Not applicable preparation of drugs.								
<b>The i</b> AICS	ngredients of this pro	duct are reported in t : not determined	the follo	owing inventories:				
DSL		: not determined						

: not determined

#### SECTION 16. OTHER INFORMATION

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#### Further information

IECSC

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

#### Full text of other abbreviations

ACGIH AR OEL	USA. ACGIH Threshold Limit Values (TLV) Argentina. Occupational Exposure Limits
ACGIH / C AR OEL / CMP-C	Ceiling limit Ceiling value

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;



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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 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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