

Version 3.2	Revision Date: 06.04.2024		S Number: 37988-00017	Date of last issue: 30.09.2023 Date of first issue: 13.12.2017
Section 1	: Identification			
Prod	uct identifier	:	Ertugliflozin Forn	nulation
Reco	ommended use of the ch	nem	ical and restriction	ons on use
Reco	mmended use	:	Pharmaceutical	
Restr	ictions on use	:	Not applicable	
Manu	ufacturer or supplier's d	letai	ils	
Com	bany	:	MSD	
Addre	ess	:	50 Tuas West Di Singapore - Sing	
Telep	bhone	:	+1-908-740-400	0
Emer	gency telephone number	· :	65 6697 2111 (2	4/7/365)
E-ma	il address	:	EHSDATASTEW	/ARD@msd.com
Section 2	: Hazard identification			
Class	sification of the substar	nce	or mixture	

Classification of the substar	nce	or mixture
Serious eye damage/eye irri-	:	Category 1
tation		

### GHS Label elements, including precautionary statements

Hazard pictograms	
Signal word	Danger
Hazard statements	H318 Causes serious eye damage.
Precautionary statements	<b>Prevention:</b> P280 Wear eye protection/ face protection.
	<b>Response:</b> P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.



Version	Revision Date:	SDS Number:	Date of last issue: 30.09.2023
3.2	06.04.2024	2337988-00017	Date of first issue: 13.12.2017

#### Other hazards which do not result in classification

Contact with dust can cause mechanical irritation or drying of the skin. May form explosive dust-air mixture during processing, handling or other means.

### Section 3: Composition/information on ingredients

Substance / Mixture : Mixture

#### Components

Chemical name	CAS-No.	Concentration (% w/w)
Cellulose	9004-34-6	>= 50 -< 70
Ertugliflozin	1210344-83-4	>= 5 -< 10
Titanium dioxide	13463-67-7	>= 0.1 -< 1

#### Section 4: First-aid measures

Description of necessary f	t-aid measures				
General advice	<ul> <li>In the case of accident or if you feel unwell, seek medical advice immediately.</li> <li>When symptoms persist or in all cases of doubt seek medical advice.</li> </ul>				
If inhaled	: If inhaled, remove to fresh air. Get medical attention if symptoms occur.				
In case of skin contact	: Wash with water and soap. Get medical attention if symptoms occur.				
In case of eye contact	<ul> <li>In case of contact, immediately flush eyes with plenty of wate for at least 15 minutes.</li> <li>If easy to do, remove contact lens, if worn.</li> <li>Get medical attention immediately.</li> </ul>	r			
If swallowed	: If swallowed, DO NOT induce vomiting. Get medical attention if symptoms occur. Rinse mouth thoroughly with water.				
Most important symptoms	d effects, both acute and delayed				
Risks	<ul> <li>Causes serious eye damage.</li> <li>Contact with dust can cause mechanical irritation or drying of the skin.</li> </ul>				
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).				
Indication of any immediate medical attention and special treatment needed					
Treatment	: Treat symptomatically and supportively.				

### Section 5: Fire-fighting measures

Suitable extinguishing media	:	Water spray
		Alcohol-resistant foam
		Carbon dioxide (CO2)



Version 3.2	Revision Date: 06.04.2024	SDS Numl 2337988-0		Date of last issue: 30.09.2023 Date of first issue: 13.12.2017
Uns me	suitable extinguishing dia	Dry ch : None k		
Spe	ecial hazards arising from	n the subst	ance or m	ixture
	ecific hazards during fire- ting	concer potenti	ntrations, and all dust exp	dust; fine dust dispersed in air in sufficient nd in the presence of an ignition source is a losion hazard. pustion products may be a hazard to health.
Ha: uct	zardous combustion prod- s	: Carbor Metal o	n oxides oxides	
Spe for	ecial protective actions for ecial protective equipment firefighters ecific extinguishing meth-	: In the e Use pe : Use ex cumsta Use wa Remov so.	event of fire ersonal prot tinguishing ances and t ater spray t	e, wear self-contained breathing apparatus. ective equipment. measures that are appropriate to local cir- he surrounding environment. o cool unopened containers. ged containers from fire area if it is safe to do
Section	6: Accidental release me		ale alea.	
	al precautions, protective sonal precautions	: Use pe Follow	ersonal prot safe handl	<b>rgency procedures</b> ective equipment. ing advice (see section 7) and personal pro- recommendations (see section 8).
	mental precautions vironmental precautions	Prever Retain Local a	it further lea and dispos	he environment. akage or spillage if safe to do so. se of contaminated wash water. should be advised if significant spillages ed.
	s and materials for conta thods for cleaning up	: Sweep tainer f Avoid o with co Dust do es, as leased Local o posal o employ mine w Section	up or vacu or disposal dispersal of mpressed eposits sho these may into the atu or national u of this mate yed in the c which regula as 13 and 1	ium up spillage and collect in suitable con- dust in the air (i.e., clearing dust surfaces



3.2 06.04.20	024 233798	38-00017 D	ate of first issue: 13.12.2017

## 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 : Advice on safe handling :	Use only with adequate ventilation.
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. 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, industrial hygiene monitoring, medical surveillance and the use of administrative controls.
Conditions for safe storage, in	cluding any incompatibilities
Conditions for safe storage	Keen in properly labelled containers

Conditions for safe storage	:	Keep in properly labelled containers.
		Keep tightly closed.
		Store in accordance with the particular national regulations.
Materials to avoid	:	Do not store with the following product types:
		Strong oxidizing agents

### 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
Cellulose	9004-34-6	PEL (long	10 mg/m3	SG OEL



# **Ertugliflozin Formulation**

Version	Revision Date:	SDS Number:	Date of last issue: 30.09.2023
3.2	06.04.2024	2337988-00017	Date of first issue: 13.12.2017

		term)		
		TWA	10 mg/m3	ACGIH
Ertugliflozin	1210344-83- 4	TWA	10 µg/m3 (OEB 3)	Internal
		Wipe limit	100 µg/100 cm <sup>2</sup>	Internal
Titanium dioxide	13463-67-7	PEL (long term)	10 mg/m3	SG OEL
		TWA (Res- pirable par- ticulate mat- ter)	2.5 mg/m3 (Titanium dioxide)	ACGIH

This substance(s) is not bioavailable and therefore does not contribute to a dust inhalation hazard.

Titanium dioxide

Appropriate engineering control measures	:	All engineering controls should be implemented by facility design and operated in accordance with GMP principles to protect products, workers, and the environment. Containment technologies suitable for controlling compounds are required to control at source and to prevent migration of the compound to uncontrolled areas (e.g., open-face con- tainment devices). Minimize open handling.
Individual protection measu	ires	s, such as personal 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.
Skin protection	:	Work uniform or laboratory coat. Additional body garments should be used based upon the task being performed (e.g., sleevelets, apron, gauntlets, dis- posable suits) to avoid exposed skin surfaces. Use appropriate degowning techniques to remove potentially contaminated clothing.
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 Hand protection	:	Particulates type
Material	:	Chemical-resistant gloves
Remarks	:	Consider double gloving.

### Section 9: Physical and chemical properties

Appearance

: powder



Version 3.2	Revision Date: 06.04.2024		S Number: 37988-00017	Date of last issue: 30.09.2023 Date of first issue: 13.12.2017
Colour		:	No data available	9
Odour		:	No data available	9
Odour	Threshold	:	No data available	e
pН		:	No data available	e
Melting	g point/freezing point	:	No data available	9
Initial b range	poiling point and boiling	:	No data available	2
Flash p	point	:	Not applicable	
Evapo	ration rate	:	Not applicable	
Flamm	ability (solid, gas)	:	May form explosi dling or other me	ive dust-air mixture during processing, han- eans.
Flamm	ability (liquids)	:	No data available	9
	explosion limit / Upper ability limit	:	No data available	9
	explosion limit / Lower ability limit	:	No data available	9
Vapou	r pressure	:	Not applicable	
Relativ	ve vapour density	:	Not applicable	
Relativ	ve density	:	No data available	9
Density	y	:	No data available	9
	lity(ies) ter solubility	:	No data available	9
	on coefficient: n- I/water	:	Not applicable	
	gnition temperature	:	No data available	9
Decom	position temperature	:	No data available	9
Viscos Visc	ity cosity, kinematic	:	Not applicable	
Explos	ive properties	:	Not explosive	
Oxidizi	ng properties	:	The substance o	r mixture is not classified as oxidizing.





.2	Revision Date: 06.04.2024		S Number: 37988-00017	Date of last issue: 30.09.2023 Date of first issue: 13.12.2017	
	ele characteristics ele size	:	No data availat	ble	
ection 1	0: Stability and react	vity			
	tivity nical stability bility of hazardous rea	: : C- :	Stable under no May form explo dling or other m	s a reactivity hazard. ormal conditions. sive dust-air mixture during processing, han- neans. strong oxidizing agents.	
Conditions to avoid Incompatible materials Hazardous decomposition products			<ul> <li>Heat, flames and sparks. Avoid dust formation.</li> <li>Oxidizing agents</li> <li>No hazardous decomposition products are known.</li> </ul>		
ection 1	1: Toxicological infor	matio	n		
Inforn expos	nation on likely routes sure	of :	Inhalation Skin contact Ingestion Eye contact		
Acute					
	<b>e toxicity</b> lassified based on ava	ilable i	nformation.		
Not cl <u>Prod</u>	lassified based on ava	ilable i :		stimate: > 2,000 mg/kg tion method	
Not cl <u>Produ</u> Acute	lassified based on ava uct:	ilable i :	Acute toxicity es		
Not cl <u>Produ</u> Acute <u>Com</u>	lassified based on ava uct: oral toxicity ponents:	ilable i : :	Acute toxicity es	ition method	
Not cl <u>Produ</u> Acute <u>Com</u> Cellu Acute	lassified based on ava uct: oral toxicity <u>conents:</u> lose:	ilable i : :	Acute toxicity es Method: Calcula	ution method 000 mg/kg 8 mg/l 4 h	
Not cl <u>Produ</u> Acute <u>Comj</u> Cellu Acute	lassified based on ava <u>uct:</u> • oral toxicity <u>ponents:</u> lose: • oral toxicity	ilable i : : :	Acute toxicity es Method: Calcula LD50 (Rat): > 5, LC50 (Rat): > 5. Exposure time: -	000 mg/kg 8 mg/l 4 h e: dust/mist	
Not cl <u>Produ</u> Acute <u>Comj</u> <u>Cellu</u> Acute Acute	lassified based on ava uct: oral toxicity bonents: lose: oral toxicity inhalation toxicity dermal toxicity	:	Acute toxicity es Method: Calcula LD50 (Rat): > 5, LC50 (Rat): > 5. Exposure time: Test atmosphere	000 mg/kg 8 mg/l 4 h e: dust/mist	
Not cl Produ Acute Comp Cellu Acute Acute Acute Ertug	lassified based on ava <u>uct:</u> oral toxicity <u>bonents:</u> lose: oral toxicity oral toxicity inhalation toxicity	:	Acute toxicity es Method: Calcula LD50 (Rat): > 5, LC50 (Rat): > 5. Exposure time: Test atmosphere	000 mg/kg 8 mg/l 4 h e: dust/mist > 2,000 mg/kg	
Not cl Produ Acute Comp Cellu Acute Acute Acute Ertug Acute	lassified based on ava <u>uct:</u> • oral toxicity • onents: lose: • oral toxicity • inhalation toxicity • dermal toxicity Jliflozin:	:	Acute toxicity es Method: Calcula LD50 (Rat): > 5, LC50 (Rat): > 5. Exposure time: 4 Test atmosphere LD50 (Rabbit): >	ntion method 000 mg/kg 8 mg/l 4 h e: dust/mist > 2,000 mg/kg mg/kg	



sion	Revision Date: 06.04.2024	SDS Number: 2337988-00017	Date of last issue: 30.09.2023 Date of first issue: 13.12.2017
Titoni	um dioxide:		
Acute	oral toxicity	: LD50 (Rat):	: > 5,000 mg/kg
Acute	inhalation toxicity	Exposure ti Test atmos	phere: dust/mist it: The substance or mixture has no acute inh
-	corrosion/irritation assified based on av	ailable information	
Produ			
	sment	: No skin irrit	ation
Metho		: EpiDerm	
Resul	t	: Not corrosiv	/е
<u>Comp</u>	oonents:		
Ertug	liflozin:		
Resul	t	: Corrosive	
Titani	um dioxide:		
Speci Resul		: Rabbit : No skin irrit	ation
Serio	us eye damage/eye	irritation	
Cause	es serious eye dama	ge.	
Comp	oonents:		
Frtua	liflozin:		
Resul		: Severe irrita	ation
Titani	um dioxide:		
Speci		: Rabbit	
Resul	t	: No eye irrita	ation
Resp	iratory or skin sens	itisation	
	sensitisation		
Not cl	assified based on av	ailable information.	
Resp	iratory sensitisatior	1	
Not cl	assified based on av	ailable information.	



ersion 2	Revision Date: 06.04.2024		9S Number: 37988-00017	Date of last issue: 30.09.2023 Date of first issue: 13.12.2017
	<u>oonents:</u> Iliflozin:			
Test <sup>-</sup> Resu	Гуре	:	Local lymph nod Not a skin sensit	
Test	sure routes les	:	Local lymph nod Skin contact Mouse negative	le assay (LLNA)
	a cell mutagenicity lassified based on ava	ailable	information.	
<u>Com</u>	ponents:			
<b>Cellu</b> Geno	lose: toxicity in vitro	:	Test Type: Bacte Result: negative	erial reverse mutation assay (AMES)
			Test Type: In vit Result: negative	ro mammalian cell gene mutation test
Geno	toxicity in vivo	:	<ul> <li>Test Type: Mammalian erythrocyte micronucleus test (in v cytogenetic assay)</li> <li>Species: Mouse</li> <li>Application Route: Ingestion</li> <li>Result: negative</li> </ul>	
Ertug	liflozin:			
-	toxicity in vitro	:	Test Type: Bacte Result: negative	erial reverse mutation assay (AMES)
			Test Type: Chro Result: negative	mosome aberration test in vitro
Geno	toxicity in vivo	:	Test Type: Mam cytogenetic assa Species: Rat Result: negative	
Titan	ium dioxide:			
Geno	toxicity in vitro	:	Test Type: Bacte Result: negative	erial reverse mutation assay (AMES)
Geno	toxicity in vivo	:	Test Type: In viv Species: Mouse Result: negative	o micronucleus test



rsion 2	Revision Date: 06.04.2024	SDS Number: 2337988-00017	Date of last issue: 30.09.2023 Date of first issue: 13.12.2017
Not cl	<b>nogenicity</b> assified based on avai	lable information.	
<u>Comp</u>	oonents:		
Cellu			
	cation Route sure time	: Rat : Ingestion : 72 weeks : negative	
Ertug	liflozin:		
	cation Route sure time	: Mouse : Oral : 2 Years : negative	
	cation Route sure time	: Rat : Oral : 2 Years : negative	
Carcir ment	nogenicity - Assess-	: Weight of evide cinogen	ence does not support classification as a car-
Titani	ium dioxide:		
	cation Route sure time od t	mans. This substance	
Carcii ment	nogenicity - Assess-	: Limited eviden animals.	ce of carcinogenicity in inhalation studies with
-	oductive toxicity assified based on avai	lable information.	
<u>Comp</u>	oonents:		
<b>Cellu</b> Effect	<b>lose:</b> s on fertility	: Test Type: On Species: Rat Application Ro Result: negativ	
Effect	s on foetal develop-	: Test Type: Fer	tility/early embryonic development



Version 3.2	Revision Date: 06.04.2024		S Number: 37988-00017	Date of last issue: 30.09.2023 Date of first issue: 13.12.2017
men	t		Species: Rat Application Ro Result: negativ	
Ertu	gliflozin:			
	cts on fertility	:	Species: Rat Application Ro Fertility: NOAE Remarks: Mate No significant a Test Type: Fer Species: Rabb Application Ro Fertility: NOAE	L: 250 mg/kg body weight ernal toxicity observed. adverse effects were reported tility/early embryonic development t
Effe	cts on foetal develop- t	:	Species: Rat Application Ro Developmenta Remarks: Adve Test Type: Em Species: Rabb Application Ro Developmenta	Toxicity: NOAEL: 50 mg/kg body weight erse developmental effects were observed bryo-foetal development t
	T - single exposure classified based on ava	ailable i	nformation.	
STO	T - repeated exposure	e		
Not	classified based on ava	ailable i	nformation.	
<u>Com</u>	ponents:			
Expo Targ	<b>gliflozin:</b> osure routes let Organs essment	:	Oral Kidney, Stoma May cause dar exposure.	ch, Prostate nage to organs through prolonged or repeated
Rep	eated dose toxicity			
-	ponents:			
	ulose: cies		Rat >= 9,000 mg/kg	9



Version 3.2	Revision Date: 06.04.2024	SDS Number: 2337988-00017	Date of last issue: 30.09.2023 Date of first issue: 13.12.2017
	cation Route sure time	: Ingestion : 90 Days	
Spec LOAE Appli		: Rat : 500 mg/kg : Oral : 30 d	
Expo		: Rat : 250 mg/kg : Oral : 30 d : Kidney	
Expo		: Rat : 25 mg/kg : Oral : 180 d : Kidney, Bone,	Stomach
		: Rat : 25 mg/kg : 90 d : Kidney, Gastro	intestinal tract, Prostate
	EL cation Route sure time	: Dog : 150 mg/kg : Oral : 270 d : No significant a	adverse effects were reported
	EL cation Route sure time	: Mouse : 100 mg/kg : Oral : 90 d : No significant a	adverse effects were reported
Expo	EL cation Route sure time et Organs	: Mouse : 100 mg/kg : Oral : 28 d : Bone : No significant a	adverse effects were reported
Spec NOA Appli		: Rat : 24,000 mg/kg : Ingestion : 28 Days	



ersion 2	Revision Date: 06.04.2024	-	0S Number: 37988-00017	Date of last issue: 30.09.2023 Date of first issue: 13.12.2017
		:	Rat 10 mg/m3 inhalation (dust/r 2 yr	nist/fume)
-	ation toxicity assified based on ava	ailable	information.	
Expe	rience with human e	xposı	ire	
<u>Comp</u>	oonents:			
Ertug Inges	<b>liflozin:</b> tion	:	constipation, Dia	most common side effects are:, Headache, rrhoea, Nausea, urinary tract infection, mus- espiratory tract infection
ection 12	2: Ecological informa	ation		
Тохіс	ity			
<u>Comp</u>	oonents:			
Cellu	lose:			
Toxici	ity to fish	:	Exposure time: 4	tipes (Japanese medaka)): > 100 mg/l 8 h on data from similar materials
Ertug	liflozin:			
	ity to algae/aquatic	:	Exposure time: 7	rchneriella subcapitata (green algae)): 77 mg ′2 h Гest Guideline 201
			mg/l Exposure time: 7	irchneriella subcapitata (green algae)): 50 '2 h Fest Guideline 201
Toxici icity)	ity to fish (Chronic tox	- :	Exposure time: 3 Method: OECD	lles promelas (fathead minnow)): 1 mg/l 2 d Fest Guideline 210 iicity at the limit of solubility
	ity to daphnia and othe ic invertebrates (Chro city)		Exposure time: 2 Method: OECD	magna (Water flea)): 2.14 mg/l 1 d Fest Guideline 211 icity at the limit of solubility
Toxici	ity to microorganisms	:	EC50: > 1,000 m Exposure time: 3 Test Type: Resp	h





rsion	Revision Date: 06.04.2024	-	0S Number: 37988-00017	Date of last issue: 30.09.2023 Date of first issue: 13.12.2017
			Method: OECD T	est Guideline 209
			NOEC: 1,000 mg. Exposure time: 3 Test Type: Respin Method: OECD T	h
Titani	ium dioxide:			
Toxicity to fish		:	LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l Exposure time: 96 h Method: OECD Test Guideline 203	
	ity to daphnia and other ic invertebrates	:	EC50 (Daphnia m Exposure time: 48	nagna (Water flea)): > 100 mg/l 8 h
Toxici plants	ity to algae/aquatic	:	EC50 (Skeletone Exposure time: 72	ma costatum (marine diatom)): > 10,000 mg 2 h
Toxici	ity to microorganisms	:	EC50: > 1,000 mg/l Exposure time: 3 h Method: OECD Test Guideline 209	
Persi	stence and degradabili	ity		
<u>Comp</u>	oonents:			
<b>Cellu</b> Biode	<b>lose:</b> gradability		Result: Readily bi	iodegradable
Dioue	gradability	•	Result. Readily bi	
-	l <b>iflozin:</b> gradability	:	Result: Not readil Biodegradation: Exposure time: 28	40.8 %
Bioac	cumulative potential			
Comp	oonents:			
Ertug	liflozin:		: log Pow: 2.47	
	on coefficient: n- ol/water	:	1091 000. 2.47	
octan		:	log I 0w. 2.47	
octano <b>Mobil</b>	ol/water	:	log i ow. 2.41	



Version	Revision Date:	SDS Number:	Date of last issue: 30.09.2023	
3.2	06.04.2024	2337988-00017	Date of first issue: 13.12.2017	

### Other adverse effects

No 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 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 Transport hazard class(es) Subsidiary risk Packing group Labels Environmentally hazardous	Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable no
IATA-DGR UN/ID No. UN proper shipping name Class Subsidiary risk Packing group Labels Packing instruction (cargo aircraft) Packing instruction (passen- ger aircraft)	Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable
IMDG-Code UN number UN proper shipping name Class Subsidiary risk Packing group Labels EmS Code Marine pollutant	Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable

### Transport in bulk according to IMO instruments

Not applicable for product as supplied.

Special precautions for user Not applicable



Version	Revision Date:	SDS Number:	Date of last issue: 30.09.2023
3.2	06.04.2024	2337988-00017	Date of first issue: 13.12.2017

#### 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 5 DSL not determined IECSC not determined

#### Section 16: Other information

Revision Date	:	06.04.2024
Further information		
Sources of key data used to compile the Safety Data Sheet	:	Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agency, http://echa.europa.eu/
Date format	:	dd.mm.yyyy
Full text of other abbreviation	ons	
ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)
SG OEL	:	Singapore. Workplace Safety and Health (General Provisions) Regulations - First Schedule Permissible Exposure Limits of Toxic Substances.
ACGIH / TWA	:	8-hour, time-weighted average
SG OEL / PEL (long term)	:	Permissible Exposure Level (PEL) Long Term

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



## **Ertugliflozin Formulation**

Version	Revision Date:	SDS Number:	Date of last issue: 30.09.2023
3.2	06.04.2024	2337988-00017	Date of first issue: 13.12.2017

Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China: IMDG - International Maritime Dangerous Goods: IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

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