

Ertugliflozin Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 04.04.2023
5.1	30.09.2023	2337991-00015	Date of first issue: 13.12.2017

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Er Manufacturer or supplier's details

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Manufacturer or supplier's details						
Company name of supplier	:	MSD				
Address	:	126 E. Lincoln Avenue				
		Rahway, New Jersey U.S.A. 07065				
Telephone	:	908-740-4000				
Emergency telephone	:	1-908-423-6000				
E-mail address	:	EHSDATASTEWARD@msd.com				
Recommended use of the chemical and restrictions on use						

Recommended use of the chemical and restrictions on use

Recommended use	:	Pharmaceutical
Restrictions on use	:	Not applicable

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification Serious eye damage/eye irritation	:	Category 1
Specific target organ toxicity - repeated exposure (Oral)	:	Category 2 (Kidney, Stomach, Prostate)
GHS label elements Hazard pictograms	:	
Signal Word	:	Danger
Hazard Statements	:	H318 Causes serious eye damage. H373 May cause damage to organs (Kidney, Stomach, Pros- tate) through prolonged or repeated exposure if swallowed.
Precautionary Statements	:	Prevention: P260 Do not breathe dust. P280 Wear eye protection/ face protection.
		Response: 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 or doctor/ physician. P314 Get medical advice/ attention if you feel unwell.
		Disposal: P501 Dispose of contents/ container to an approved waste disposal plant.



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Other hazards

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

SECTION 4. FIRST AID MEASURES

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

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 if symptoms occur.
In case of skin co	ntact :	Wash with water and soap. Get medical attention if symptoms occur.
In case of eye cor	ntact :	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lens, if worn. Get medical attention immediately.
If swallowed	:	If swallowed, DO NOT induce vomiting. Get medical attention if symptoms occur. Rinse mouth thoroughly with water.
Most important sy and effects, both a delayed		Causes serious eye damage. May cause damage to organs through prolonged or repeated exposure if swallowed. Contact with dust can cause mechanical irritation or drying of
Protection of first-	aiders :	the skin. 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).
Notes to physiciar	n :	Treat symptomatically and supportively.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media		Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical
Unsuitable extinguishing media	:	None known.
Specific hazards during fire fighting	:	Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard. Exposure to combustion products may be a hazard to health.



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	Hazard ucts	ous combustion prod-	:	Carbon oxides Metal oxides	
	Specific ods	c extinguishing meth-	:	cumstances and t Use water spray to	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
	Special for fire-	protective equipment fighters	:		e, wear self-contained breathing apparatus. ective equipment.
SEC	CTION 6	ACCIDENTAL RELE	ASI	E MEASURES	
	Personal precautions, protec- tive equipment and emer- gency procedures		:		ective equipment. ing advice (see section 7) and personal ent recommendations (see section 8).
	Environmental precautions		:	Retain and dispos	akage or spillage if safe to do so. e of contaminated wash water. should be advised if significant spillages
	Methods and materials for containment and cleaning up		:	container for disper Avoid dispersal of with compressed a Dust deposits sho surfaces, as these released into the a Local or national r disposal of this ma employed in the c determine which r Sections 13 and 1	dust in the air (i.e., clearing dust surfaces

SECTION 7. HANDLING AND STORAGE

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. Do not breathe dust. Do not swallow. Do not get in eyes. Avoid prolonged or repeated contact with skin. Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure assessment
		assessment Keep container tightly closed.



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Hyg	iene measures	 Minimize dust generation and accumulation. Keep container closed when not in use. Keep away from heat and sources of ignition. Take precautionary measures against static discharges. Take care to prevent spills, waste and minimize release to environment. If exposure to chemical is likely during typical use, provide 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 equipmer 		
Cor	ditions for safe storage	use of administ	ne monitoring, medical surveillance and the trative controls. Iy labeled containers. Iysed.	
Mat	erials to avoid	 Store in accordance with the particular national regula Do not store with the following product types: Strong oxidizing agents 		

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Cellulose	9004-34-6	VLE-PPT	10 mg/m ³	NOM-010- STPS-2014
		TWA	10 mg/m ³	ACGIH
Ertugliflozin	1210344-83- 4	TWA	10 µg/m3 (OEB 3)	Internal
		Wipe limit	100 µg/100 cm ²	Internal
Titanium dioxide	13463-67-7	VLE-PPT	10 mg/m ³	NOM-010- STPS-2014
		TWA (Respirable particulate matter)	2.5 mg/m ³ (Titanium dioxide)	ACGIH

Ingredients with workplace control parameters

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

Titanium dioxide

Engineering 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 containment devices).



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		Minimize open	handling.				
Perso	onal protective equip	ment					
Resp	iratory protection Iter type protection	: If adequate loca exposure asses recommended	If adequate local exhaust ventilation is not available or exposure assessment demonstrates exposures outside the recommended guidelines, use respiratory protection. Particulates type				
Material		: Chemical-resist	Chemical-resistant gloves				
Remarks Eye protection		If the work envi mists or aeroso Wear a faceshi	e gloving. asses with side shields or goggles. ronment or activity involves dusty conditions, ils, wear the appropriate goggles. eld or other full face protection if there is a ect contact to the face with dusts, mists, or				
Skin a	and body protection	: Work uniform o Additional body task being perfo disposable suits Use appropriate	 Work uniform or laboratory coat. Additional body garments should be used based upon the task being performed (e.g., sleevelets, apron, gauntlets, disposable suits) to avoid exposed skin surfaces. Use appropriate degowning techniques to remove potentially contaminated clothing. 				

Appearance	:	powder
Color	:	No data available
Odor	:	No data available
Odor Threshold	:	No data available
рН	:	No data available
Melting point/freezing point	:	No data available
Initial boiling point and boiling range	:	No data available
Flash point	:	Not applicable
Evaporation rate	:	Not applicable
Flammability (solid, gas)	:	May form explosive dust-air mixture during processing, handling or other means.
Flammability (liquids)	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available



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	flamma	ability limit			
	Vapor	pressure	:	Not applicable	
	Relativ	e vapor density	:	Not applicable	
	Relativ	e density	:	No data available	9
	Density	/	:	No data available	9
	Solubil Wat	ity(ies) ter solubility	:	No data available	9
	Partition coefficient: n- octanol/water		:	Not applicable	
		nition temperature	:	No data available	9
	Decom	position temperature	:	No data available	9
	Viscosi Visc	ity cosity, kinematic	:	Not applicable	
	Explos	ive properties	:	Not explosive	
		ng properties	:		r mixture is not classified as oxidizing.
	Particle	e size	:	No data available	

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, handling or other means. Can react with strong oxidizing agents.
Conditions to avoid Incompatible materials Hazardous decomposition	:	Heat, flames and sparks. Avoid dust formation. Oxidizing agents No hazardous decomposition products are known.
products		

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Inhalation Skin contact Ingestion Eye contact

Acute toxicity

Not classified based on available information.



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<u>Produ</u> Acute	uct: oral toxicity	:		stimate: > 5,000 mg/kg		
			Method: Calculation method			
Com	oonents:					
Cellu	lose:					
Acute	oral toxicity	:	LD50 (Rat): > 5	,000 mg/kg		
Acute	inhalation toxicity	:	: LC50 (Rat): > 5.8 mg/l Exposure time: 4 h Test atmosphere: dust/mist			
Acute	dermal toxicity	:	LD50 (Rabbit):	> 2,000 mg/kg		
Ertug	liflozin:					
Acute	oral toxicity	:	LD50 (Rat): 500) mg/kg		
Acute	inhalation toxicity	:	Remarks: No da	ata available		
Acute	dermal toxicity	:	Remarks: No da	ata available		
Titan	ium dioxide:					
Acute	oral toxicity	:	LD50 (Rat): > 5	,000 mg/kg		
Acute	inhalation toxicity	:	LC50 (Rat): > 6 Exposure time: Test atmospher Assessment: Th tion toxicity	4 h		
Skin	corrosion/irritation					

Not classified based on available information.

Product:

Assessment	:	No skin irritation
Method	:	EpiDerm
Result	:	Not corrosive

Components:

Ertugliflozin:

Result	: Corrosive
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Titanium dioxide:

Species	:	Rabbit
Result	:	No skin irritation

Serious eye damage/eye irritation

Causes serious eye damage.



ersion 1	Revision Date: 30.09.2023	SDS Nui 2337991		Date of last issue: 04.04.2023 Date of first issue: 13.12.2017
<u>Com</u>	ponents:			
Ertu Resu	gliflozin: ılt	: Seve	ere irritation	
Titar	nium dioxide:			
Spec Resu		: Rabb : No e	oit ye irritation	
Resp	piratory or skin sens	itization		
-	sensitization	ailable inform	nation.	
	biratory sensitizatior classified based on av		nation.	
Com	ponents:			
	gliflozin: Type ılt		l lymph nod a skin sensit	e assay (LLNA) izer.
Titar	nium dioxide:			
			contact se	e assay (LLNA)
	n cell mutagenicity classified based on av	ailable inform	nation.	
_	ponents:			
Cellu	ulose:			
Geno	otoxicity in vitro		Type: Bacte Ilt: negative	erial reverse mutation assay (AMES)
			Type: In vitr Ilt: negative	o mammalian cell gene mutation test
Geno	otoxicity in vivo	cytog Spec Appli	Type: Mami genetic assa cies: Mouse ication Rout Ilt: negative	
Ertu	gliflozin:			
Geno	otoxicity in vitro		Type: Bacte It: negative	erial reverse mutation assay (AMES)
		Test	Type: Chroi	nosome aberration test in vitro



Versio 5.1	on	Revision Date: 30.09.2023)S Number: 37991-00015	Date of last issue: 04.04.2023 Date of first issue: 13.12.2017			
				Result: negative				
G	Genotoxicity in vivo		:	: Test Type: Mammalian erythrocyte micronucleus test (ir cytogenetic assay) Species: Rat Result: negative				
Т	itaniu	m dioxide:						
G	Senoto	xicity in vitro	:	Test Type: Bacter Result: negative	rial reverse mutation assay (AMES)			
G	Genotoxicity in vivo		:	Test Type: In vivo micronucleus test Species: Mouse Result: negative				
		ogenicity ssified based on availa	able	information.				
<u>c</u>	ompo	onents:						
С	ellulo	se:						
			:	Rat				
		tion Route Ire time	÷	Ingestion 72 weeks				
	esult		:	negative				
E	rtugli	flozin:						
S	species	6	:	Mouse				
		tion Route	:	Oral				
	esult	ire time	:	2 Years negative				
S	pecies	5	:	Rat				
A	.pplica	tion Route	:	Oral				
	xposu Result	ire time	:	2 Years negative				
			•	negative				
	arcinc nent	ogenicity - Assess-	:	Weight of evidend cinogen	ce does not support classification as a car-			
Ti	itaniu	m dioxide:						
	species		:	Rat				
		tion Route	:	inhalation (dust/m	iist/fume)			
	xposu lethod	ire time I	:	2 Years OECD Test Guide	eline 453			
R	Result		:	positive				
R	Remark	KS	:		or mode of action may not be relevant in hu-			
				mans. This substance(s)) is not bioavailable and therefore does not			
					st inhalation hazard.			
С	Carcino	ogenicity - Assess-	:	Limited evidence	of carcinogenicity in inhalation studies with			



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	ment			animals.	
	-	ductive toxicity Issified based on availa	ble	information.	
	Compo	onents:			
	Cellulo	ose:			
	Effects	on fertility	:	Test Type: One-g Species: Rat Application Route Result: negative	eneration reproduction toxicity study : Ingestion
	Effects	on fetal development	:	 Test Type: Fertility/early embryonic development Species: Rat Application Route: Ingestion Result: negative 	
	Ertugli	iflozin:			
	-	on fertility	:	Species: Rat Application Route Fertility: NOAEL: 2 Remarks: Materna	y/early embryonic development : Oral 250 mg/kg body weight al toxicity observed. erse effects were reported
				Species: Rabbit Application Route Fertility: NOAEL:	y/early embryonic development : Oral 200 mg/kg body weight ificant adverse effects were reported
	Effects	on fetal development	:	Species: Rat Application Route Developmental To	o-fetal development : Oral oxicity: NOAEL: 50 mg/kg body weight e developmental effects were observed
				Species: Rabbit Application Route Developmental To	o-fetal development : Oral oxicity: NOAEL: 250 mg/kg body weight ificant adverse effects were reported

STOT-single exposure

Not classified based on available information.

STOT-repeated exposure

May cause damage to organs (Kidney, Stomach, Prostate) through prolonged or repeated exposure if swallowed.



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<u>Com</u>	ponents:		
Ertug	gliflozin:		
-	es of exposure	: Oral	
	et Organs		nach, Prostate
-	ssment		amage to organs through prolonged or repeated
		exposure.	
Repe	eated dose toxicity		
<u>Com</u>	ponents:		
Cellı	llose:		
Spec	ties	: Rat	
NOA		: >= 9,000 mg	/ka
Appli	cation Route	: Ingestion	0
	sure time	: 90 Days	
Ertug	gliflozin:		
Spec		: Rat	
LOAE		: 500 mg/kg	
	cation Route	: Oral	
	sure time	: 30 d	
Spec		: Rat	
LOAE		: 250 mg/kg	
	cation Route	: Oral	
	sure time	: 30 d	
Targe	et Organs	: Kidney	
Spec	sies	: Rat	
LOAE	EL	: 25 mg/kg	
Appli	cation Route	: Oral	
	sure time	: 180 d	
Targe	et Organs	: Kidney, Bone	e, Stomach
Spec		: Rat	
LOAE		: 25 mg/kg	
	sure time	: 90 d	
Targe	et Organs	: Kidney, Gasi	trointestinal tract, Prostate
Spec		: Dog	
NOA		: 150 mg/kg	
	cation Route	: Oral	
	sure time	: 270 d	
Rema	arks	: No significan	t adverse effects were reported
Spec		: Mouse	
NOA		: 100 mg/kg	
	cation Route	: Oral	
	sure time	: 90 d	to do an a florida
Rema	arks	: No significan	t adverse effects were reported
Spec	cies	: Mouse	



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NOAEL:Application Route:Exposure time:Target Organs:Remarks:		: O : 23 : B	100 mg/kg Oral 28 d Bone No significant adverse effects were reported		
Titan	ium dioxide:				
		: 24 : In	at 4,000 mg/kg gestion 3 Days		
		: 10 : in	Rat 10 mg/m³ inhalation (dust/mist/fume) 2 y		
•	ration toxicity lassified based on ava	ailable inf	ormation.		
Expe	rience with human e	xposure			
Com	ponents:				
Ertug	gliflozin:				
Inges	tion	C	onstipation, D	e most common side effects are:, Headache, biarrhea, Nausea, urinary tract infection, muscle spiratory tract infection	
ECTION	12. ECOLOGICAL IN	FORMA	TION		
Ecote	oxicity				
Com	ponents:				
Cellu	llose:				
Toxic	ity to fish	E	xposure time	latipes (Japanese medaka)): > 100 mg/l : 48 h ed on data from similar materials	
Ertug	gliflozin:				
Toxic plants	ity to algae/aquatic s	E	xposure time	kirchneriella subcapitata (green algae)): 77 mg/l : 72 h) Test Guideline 201	
		m	OEC (Pseud g/l	okirchneriella subcapitata (green algae)): 50	

Toxicity to fish (Chronic toxicity) : NOEC (Pimephales promelas (fathead minnow)): 1 mg/l Exposure time: 32 d Method: OECD Test Guideline 210

Method: OECD Test Guideline 201

Exposure time: 72 h



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				Remarks: No toxic	city at the limit of solubility.	
а	Toxicity to daphnia and other aquatic invertebrates (Chron- ic toxicity)		:	NOEC (Daphnia magna (Water flea)): 2.14 mg/l Exposure time: 21 d Method: OECD Test Guideline 211 Remarks: No toxicity at the limit of solubility.		
Т	Toxicity to microorganisms		:	EC50: > 1,000 mg/l Exposure time: 3 h Test Type: Respiration inhibition Method: OECD Test Guideline 209		
				NOEC: 1,000 mg/ Exposure time: 3 Test Type: Respir Method: OECD Te	h ration inhibition	
т	itaniu	m dioxide:				
Т	oxicity	to fish	:	LC50 (Oncorhync Exposure time: 96 Method: OECD To		
		to daphnia and other invertebrates	:	EC50 (Daphnia m Exposure time: 48	nagna (Water flea)): > 100 mg/l 3 h	
	oxicity	to algae/aquatic	:	EC50 (Skeletoner Exposure time: 72	ma costatum (marine diatom)): > 10,000 mg/l 2 h	
Т	oxicity	to microorganisms	:	EC50: > 1,000 mg/l Exposure time: 3 h Method: OECD Test Guideline 209		
P	Persist	ence and degradabili	ity			
<u>c</u>	Compo	nents:				
c	Cellulo	se:				
В	Biodegr	adability	:	Result: Readily bi	odegradable.	
	E rtuglif Biodegr	l ozin: adability	:	Result: Not readily Biodegradation: 4 Exposure time: 28	40.8 %	
B	Bioacc	umulative potential				
<u>C</u>	Compo	nents:				
Р	Ertuglif Partitior octanol/	n coefficient: n-	:	log Pow: 2.47		



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Mobi	lity in soil		
Com	oonents:		
Ertug	liflozin:		
	bution among environ- al compartments	: log Koc: 2.88	
Other adverse effects			
No da	ata available		
CTION	13. DISPOSAL CONSI	DERATIONS	
-	osal methods		·
Waste	e from residues		of waste into sewer. cordance with local regulations.
Contaminated packaging : Empty containers should be taken to an approved was handling site for recycling or disposal. If not otherwise specified: Dispose of as unused produ		s should be taken to an approved waste recycling or disposal.	
	14. TRANSPORT INFO		· · ·
CHON	14. TRANSPORT INFC	RMATION	
Interr	national Regulations		
UNR Not re	FDG egulated as a dangerous	s good	
	-DGR		
IATA Not re	egulated as a dangerous	s good	
Not re IMDG	-	-	
Not re IMDG Not re Trans	egulated as a dangerous -Code egulated as a dangerous	s good g to Annex II of MAR	POL 73/78 and the IBC Code
Not re IMDG Not re Trans Not a	egulated as a dangerous i-Code egulated as a dangerous sport in bulk according	s good g to Annex II of MAR	POL 73/78 and the IBC Code
Not re IMDG Not re Trans Not a Dome	egulated as a dangerous -Code egulated as a dangerous sport in bulk according pplicable for product as	s good g to Annex II of MAR supplied.	POL 73/78 and the IBC Code
Not re IMDG Not re Not a Dome NOM Not re Spec	egulated as a dangerous G-Code egulated as a dangerous sport in bulk according pplicable for product as estic regulation -002-SCT	s good g to Annex II of MAR supplied. s good	POL 73/78 and the IBC Code
Not re IMDG Not re Not a Dome Not re Spec Not a	egulated as a dangerous G-Code egulated as a dangerous sport in bulk according pplicable for product as estic regulation -002-SCT egulated as a dangerous ial precautions for use pplicable	s good g to Annex II of MAR supplied. s good	POL 73/78 and the IBC Code
Not re IMDG Not re Not a Dome Not re Spec Not a	egulated as a dangerous G-Code egulated as a dangerous sport in bulk according pplicable for product as estic regulation -002-SCT egulated as a dangerous ial precautions for use	s good g to Annex II of MAR supplied. s good	POL 73/78 and the IBC Code
Not re IMDG Not re Not a Dome Not re Spec Not a CTION	egulated as a dangerous G-Code egulated as a dangerous sport in bulk according pplicable for product as estic regulation -002-SCT egulated as a dangerous ial precautions for use pplicable 15. REGULATORY INF y, health and environn	s good g to Annex II of MAR supplied. s good r GRMATION	POL 73/78 and the IBC Code
Not re IMDG Not re Not a Dome Not a Spec Not a CTION Safet mixtu Feder esser	egulated as a dangerous G-Code egulated as a dangerous sport in bulk according pplicable for product as estic regulation -002-SCT egulated as a dangerous ial precautions for use pplicable 15. REGULATORY INF y, health and environn	s good g to Annex II of MAR supplied. s good r FORMATION hental regulations/le chemical precursors ind machinery for	gislation specific for the substance or



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DSL		: not determine	d	
IECS	C	: not determine	d	
SECTION	16. OTHER INFORM	ATION		
	ion Date format	: 30.09.2023 : dd.mm.yyyy		
Full te	ext of other abbrevia ⊣		Threshold Limit Values (TLV)	

ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)
NOM-010-STPS-2014	:	Mexico. Norm NOM-010-STPS-2014 on Chemicals Polluting
		the Work Environment - Identification, Assessment and Con-
		trol - Appendix 1 Occupational Exposure Limits
ACGIH / TWA	:	8-hour, time-weighted average
	:	Time weighted average limit value
		trol - Appendix 1 Occupational Exposure Limits 8-hour, time-weighted average

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, 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

Sources of key data used to compile the Material Safety Data Sheet

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Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agency, http://echa.europa.eu/





Ertugliflozin Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 04.04.2023
5.1	30.09.2023	2337991-00015	Date of first issue: 13.12.2017

The information is considered as correct, but not exhaustive, and will be used only as a guide, which is based in the current knowledge of the substance or mixture, and is applicable to proper safety precautions for the product.

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