

Version	Revision Date:	SDS Number:	Date of last issue: 06.03.2023
3.1	30.09.2023	2403215-00013	Date of first issue: 01.02.2018

### **SECTION 1:** Identification of the substance/mixture and of the company/undertaking

<b>1.1 Product identifier</b> Trade name	:	Ertugliflozin (< 5%) / Sitagliptin Formulation		
1.2 Relevant identified uses of t	he s	ubstance or mixture and uses advised against		
Use of the Sub- stance/Mixture	:	Pharmaceutical		
Recommended restrictions on use	:	Not applicable		
1.3 Details of the supplier of the safety data sheet				
Company	:	MSD Kilsheelan Clonmel Tipperary, IE		
Telephone	:	353-51-601000		
E-mail address of person responsible for the SDS	:	EHSDATASTEWARD@msd.com		

### **1.4 Emergency telephone number**

+1-908-423-6000

### **SECTION 2: Hazards identification**

### 2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)		
Skin irritation, Category 2 Serious eye damage, Category 1	H315: Causes skin irritation. H318: Causes serious eye damage.	

### 2.2 Label elements

### Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms	:	
Signal word	:	Danger
Hazard statements	:	<ul><li>H315 Causes skin irritation.</li><li>H318 Causes serious eye damage.</li></ul>



Version 3.1	Revision Date: 30.09.2023	SDS Number: 2403215-00013	Date of last issue: 06.03.2023 Date of first issue: 01.02.2018
Preca	autionary statements		skin thoroughly after handling. protective gloves/ eye protection/ face protection.
		with water for s sent and easy POISON CEN	- P338 + P310 IF IN EYES: Rinse cautiously several minutes. Remove contact lenses, if pre- to do. Continue rinsing. Immediately call a TER/ doctor. If skin irritation occurs: Get medical advice/ Take off contaminated clothing and wash it
		before reuse.	

Hazardous components which must be listed on the label: Ertugliflozin

### **Additional Labelling**

EUH208 Contains Propyl 3,4,5-trihydroxybenzoate. May produce an allergic reaction.

### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

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

### **SECTION 3: Composition/information on ingredients**

### 3.2 Mixtures

### Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
Sitagliptin	654671-77-9	Eye Irrit. 2; H319	>= 30 - < 50
Ertugliflozin	1210344-83-4	Acute Tox. 4; H302 Skin Corr. 1B; H314	>= 3 - < 5



# Ertugliflozin (< 5%) / Sitagliptin Formulation

Version 3.1				Date of last issue: 06.03.2 Date of first issue: 01.02.2	
Propy	/l 3,4,5-trihydroxybenz	coate	121-79-9 204-498-2 607-198-00-3	Eye Dam. 1; H31 STOT RE 2; H37 (Kidney, Stomach Prostate) Acute Tox. 4; H30 Eye Dam. 1; H31 Skin Sens. 1; H37 Aquatic Acute 1; H400 Aquatic Chronic 2 H411 M-Factor (Acute aquatic toxicity):	3 )2 >= 0,25 - < 1 8 17 -

For explanation of abbreviations see section 16.

### **SECTION 4: First aid measures**

### 4.1 Description of first aid measures

	General advice	:	In the case of accident or if you feel unwell, seek medical ad- vice immediately.
			When symptoms persist or in all cases of doubt seek medical advice.
	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).
	If inhaled	:	If inhaled, remove to fresh air. Get medical attention if symptoms occur.
	In case of skin contact	:	In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.
	In case of eye contact	:	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.
4.2	Most important symptoms an	d e	ffects, both acute and delayed
	Risks	:	Causes skin irritation.
			Causes serious eye damage.



# Ertugliflozin (< 5%) / Sitagliptin Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 06.03.2023
3.1	30.09.2023	2403215-00013	Date of first issue: 01.02.2018

May produce an allergic reaction.

### 4.3 Indication of any immediate medical attention and special treatment needed

Treatment
-----------

: Treat symptomatically and supportively.

### **SECTION 5: Firefighting measures**

### 5.1 Extinguishing media

Suitable extinguishing media	:	Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical
Unsuitable extinguishing media	:	None known.

### 5.2 Special hazards arising from the substance or mixture

J.Z U	J.z opecial hazards anong nom the substance of mixture					
	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.			
	Hazardous combustion prod- ucts	:	Carbon oxides Metal oxides Oxides of phosphorus			
5.3 A	5.3 Advice for firefighters					
	Special protective equipment for firefighters	:	In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.			
	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 do			

## **SECTION 6: Accidental release measures**

6.1 Personal precautions, protect	tive	equipment and emergency procedures
Personal precautions	:	Use personal protective equipment. Follow safe handling advice (see section 7) and personal pro- tective equipment recommendations (see section 8).
6.2 Environmental precautions		
Environmental precautions	:	Avoid release to the environment. Prevent further leakage or spillage if safe to do so.

SO.

Evacuate area.



Version 3.1	Revision Date: 30.09.2023	SDS Number: 2403215-00013	Date of last issue: 06.03.2023 Date of first issue: 01.02.2018
		•	se of contaminated wash water. should be advised if significant spillages ned.
6.3 Method	Is and material for co	ntainment and cleani	ing up
Metho	ds for cleaning up	tainer for disposa Avoid dispersal of with compressed Dust deposits sh- es, as these may leased into the at Local or national posal of this mate employed in the mine which regul Sections 13 and	of dust in the air (i.e., clearing dust surfaces

### 6.4 Reference to other sections

See sections: 7, 8, 11, 12 and 13.

### **SECTION 7: Handling and storage**

### 7.1 Precautions for safe handling

Technical measures		Static electricity may accumulate and ignite suspended dust
	•	causing an explosion.
		Provide adequate precautions, such as electrical grounding
		and bonding, or inert atmospheres.
Local/Total ventilation	:	Use only with adequate ventilation.
Advice on safe handling	:	Do not get on skin or clothing.
		Do not breathe dust.
		Do not swallow.
		Do not get in eyes.
		Wash skin thoroughly after handling.
		Handle in accordance with good industrial hygiene and safety
		practice, based on the results of the workplace exposure as-
		sessment
		Keep container tightly closed.
		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 the environment.
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. Contaminated
		work clothing should not be allowed out of the workplace.
		Wash contaminated clothing before re-use.
		The effective operation of a facility should include review of



Version 3.1	Revision Date: 30.09.2023		OS Number: 03215-00013	Date of last issue: 06.03.2023 Date of first issue: 01.02.2018		
			appropriate dego	rols, proper personal protective equipment, wning and decontamination procedures, e monitoring, medical surveillance and the tive controls.		
7.2 Conditions for safe storage, including any incompatibilities						
	quirements for storage as and containers	:		labelled containers. Keep tightly closed. nee with the particular national regulations.		
Ad	vice on common storage	:	Do not store with Strong oxidizing a	the following product types: agents		
•	<b>cific end use(s)</b> ecific use(s)	:	No data available			

### **SECTION 8: Exposure controls/personal protection**

### 8.1 Control parameters

### Occupational Exposure Limits

Dust

5 mg/m3 Value type (Form of exposure): TWA (respirable dust) Basis: FOR-2011-12-06-1358

10 mg/m3 Value type (Form of exposure): TWA (total dust) Basis: FOR-2011-12-06-1358

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Sitagliptin	654671-77- 9	TWA	0.5 mg/m3 (OEB 2)	Internal
Ertugliflozin	1210344- 83-4	TWA	10 µg/m3 (OEB 3)	Internal
		Wipe limit	100 µg/100 cm²	Internal

### Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health ef- fects	Value
Propyl 3,4,5- trihydroxybenzoate	Workers	Inhalation	Long-term systemic effects	6,66 mg/m3
	Workers	Skin contact	Long-term systemic effects	1,89 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	1,17 mg/m3
	Consumers	Skin contact	Long-term systemic effects	0,675 mg/kg bw/day
	Consumers	Ingestion	Long-term systemic effects	0,675 mg/kg bw/day



# Ertugliflozin (< 5%) / Sitagliptin Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 06.03.2023
3.1	30.09.2023	2403215-00013	Date of first issue: 01.02.2018

### Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
Propyl 3,4,5-trihydroxybenzoate	Fresh water	0,37 µg/l
	Freshwater - intermittent	3,7 µg/l
	Marine water	0,037 µg/l
	Marine water - intermittent	0,37 µg/l
	Sewage treatment plant	6,36 mg/l
	Fresh water sediment	0,0045 mg/kg dry weight (d.w.)
	Marine sediment	0,00045 mg/kg dry weight (d.w.)
	Soil	0,000688 mg/kg dry weight (d.w.)

### 8.2 Exposure controls

### **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).

Minimize open handling.

#### Personal protective equipment

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.
Hand protection		
Material	:	Chemical-resistant gloves
Remarks Skin and body protection	:	Consider double gloving. 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.
Respiratory protection	:	If adequate local exhaust ventilation is not available or expo- sure assessment demonstrates exposures outside the rec- ommended guidelines, use respiratory protection. Equipment should conform to NS EN 143 Particulates type (P)

### **SECTION 9: Physical and chemical properties**

#### 9.1 Information on basic physical and chemical properties

Physical state

: powder

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



Versio 3.1	n	Revision Date: 30.09.2023		S Number: 3215-00013	Date of last issue: 06.03.2023 Date of first issue: 01.02.2018
С	olour		:	No data available	
0	dour		:	No data available	
0	dour T	hreshold	:	No data available	)
М	lelting	point/freezing point	:	No data available	)
	nitial bo ange	piling point and boiling	:	No data available	3
FI	lamma	bility (solid, gas)	:	May form explosi dling or other me	ve dust-air mixture during processing, han- ans.
FI	lamma	bility (liquids)	:	No data available	•
		xplosion limit / Upper pility limit	:	No data available	
		explosion limit / Lower pility limit	:	No data available	
FI	lash po	pint	:	Not applicable	
A	uto-igr	nition temperature	:	No data available	)
D	ecomp	oosition temperature	:	No data available	)
pl	Н		:	No data available	)
Vi	iscosit Visco	y osity, kinematic	:	Not applicable	
S	olubilit Wate	y(ies) er solubility	:	No data available	
	artitior ctanol/	n coefficient: n- water	:	Not applicable	
V	apour	pressure	:	Not applicable	
R	elative	edensity	:	No data available	)
D	ensity		:	No data available	)
R	elative	vapour density	:	Not applicable	
Pa		characteristics cle size	:	No data available	

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



# Ertugliflozin (< 5%) / Sitagliptin Formulation

3.1 30.09.2023 2403213-00013 Date of first issue. 01.02.2016	Version 3.1	Revision Date: 30.09.2023	SDS Number: 2403215-00013	Date of last issue: 06.03.2023 Date of first issue: 01.02.2018
--	----------------	---------------------------	------------------------------	---

### 9.2 Other information

Explosives	:	Not explosive
Oxidizing properties	:	The substance or mixture is not classified as oxidizing.
Evaporation rate	:	Not applicable
Molecular weight	:	No data available

### **SECTION 10: Stability and reactivity**

### 10.1 Reactivity

Not classified as a reactivity hazard.

### **10.2 Chemical stability**

Stable under normal conditions.

### 10.3 Possibility of hazardous reactions

Hazardous reactions	<ul> <li>May form explosive dust-air mixture during processing, han- dling or other means.</li> <li>Can react with strong oxidizing agents.</li> </ul>
10.4 Conditions to avoid	
Conditions to avoid	: Heat, flames and sparks. Avoid dust formation.
10.5 Incompatible materials	
Materials to avoid	: Oxidizing agents
10.6 Hazardous decomposition p	roducts

No hazardous decomposition products are known.

### **SECTION 11: Toxicological information**

## 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

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

\_



Versio 3.1	n Revision Date: 30.09.2023		OS Number: 03215-00013	Date of last issue: 06.03.2023 Date of first issue: 01.02.2018
<u>C</u>	components:			
S	itagliptin:			
	cute oral toxicity	:	LD50 (Rat): > 3.00	00 mg/kg
			LD50 (Mouse): 3.0	000 mg/kg
E	rtugliflozin:			
A	cute oral toxicity	:	LD50 (Rat): 500 n	ng/kg
A	cute inhalation toxicity	:	Remarks: No data	available
A	cute dermal toxicity	:	Remarks: No data	available
Р	ropyl 3,4,5-trihydroxybenz	oat	e:	
A	cute oral toxicity	:	LD50 (Mouse, fen	nale): > 1.000 - 2.000 mg/kg
A	cute dermal toxicity	:	LD50 (Rat): > 2.00 Method: OECD Te Assessment: The toxicity	
-	kin corrosion/irritation auses skin irritation.			
<u>C</u>	components:			
S M	<b>itagliptin:</b> pecies lethod sesult	:	Rabbit Draize Test No skin irritation	
	r <b>tugliflozin:</b> result	:	Corrosive	
Р	ropyl 3,4,5-trihydroxybenz	oat	e:	
	pecies lethod	:	reconstructed hun OECD Test Guide	nan epidermis (RhE) Iline 439
R	esult	:	No skin irritation	
	<b>erious eye damage/eye irr</b> i causes serious eye damage.	tati	on	
<u>C</u>	components:			
	itagliptin:			
	pecies lethod	:	Rabbit Draize Test	
			10 / 24	



rsion	Revision Date: 30.09.2023	SDS Number: 2403215-00013	Date of last issue: 06.03.2023 Date of first issue: 01.02.2018		
Result	t	: Irritating to ey	es.		
Ertug	liflozin:				
Result	t	: Severe irritation	on		
Propy	vl 3,4,5-trihydroxybe	enzoate:			
Specie	es	: Rabbit			
Metho	d	: OECD Test G	OECD Test Guideline 405		
Result	t	: Irreversible ef	Irreversible effects on the eye		
Respi	ratory or skin sens	itisation			
-	sensitisation				
Not cla	assified based on av	ailable information.			
Respi	ratory sensitisatior	1			
Not cla	assified based on av	ailable information.			
<u>Comp</u>	onents:				
Sitagl	iptin:				
Test T	ype	: Local lymph n	ode assay (LLNA)		
Specie		: Mouse			
Metho		: OECD Test G	OECD Test Guideline 429		
Result	t	: Not a skin ser	Not a skin sensitizer.		
Ertug	liflozin:				
Test T	уре	: Local lymph n	ode assay (LLNA)		
Result	t	: Not a skin ser			
Propy	vl 3,4,5-trihydroxybe	enzoate:			
Test T	ype	: Local lymph n	ode assay (LLNA)		
	sure routes	: Skin contact			
Specie	es	: Mouse			
Result	t	: positive			
Asses	sment	: Probability or	evidence of skin sensitisation in humans		
Germ	cell mutagenicity				
	assified based on av	ailable information.			
<u>Comp</u>	onents:				
Sitagl	iptin:				
-	oxicity in vitro	: Test Type: Ar	nes test		
	,	Result: negati			
			nromosome aberration test in vitro		
		Lest system:	Chinese hamster ovary cells		
		Result: negati			



Version 3.1	Revision Date: 30.09.2023	SDS Number: 2403215-00013	Date of last issue: 06.03.2023 Date of first issue: 01.02.2018
		thesis in ma	DNA damage and repair, unscheduled DNA syn- mmalian cells (in vitro) : rat hepatocytes ative
Ge	notoxicity in vivo	: Test Type: M Species: Mo Application I Result: nega	Route: Oral
Erf	ugliflozin:		
	notoxicity in vitro	: Test Type: E Result: nega	Bacterial reverse mutation assay (AMES) ative
		Test Type: 0 Result: nega	Chromosome aberration test in vitro
Ge	notoxicity in vivo	: Test Type: N cytogenetic Species: Ra Result: nega	t
Pre	opyl 3,4,5-trihydroxyben	zoate:	
	notoxicity in vitro		Bacterial reverse mutation assay (AMES)
		Test Type: I Result: posit	n vitro mammalian cell gene mutation test ive
		Test Type: 0 Result: posit	Chromosome aberration test in vitro
			DNA damage and repair, unscheduled DNA syn- mmalian cells (in vitro) ttive
		Test Type: I malian cells Result: posit	n vitro sister chromatid exchange assay in mam- ive
Ge	notoxicity in vivo	cytogenetic Species: Mc	use Route: Intraperitoneal injection

### Carcinogenicity

Not classified based on available information.

## SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



ersion 1	Revision Date: 30.09.2023	SDS Number: 2403215-00013	Date of last issue: 06.03.2023 Date of first issue: 01.02.2018
Compo	onents:		
Sitagli	ptin:		
Specie		: Mouse	
	ation Route	: Oral	
	ure time	: 2 Years	
Result		: negative	
Specie		: Rat	
	ation Route	: oral (drinking	water)
	ure time	: 2 Years	
Result	Organa	: positive	
Remar	Organs ks	: Liver : Significant tox	icity observed in testing
Caroin	agonicity Accord	-	
ment	ogenicity - Assess-	cinogen	lence does not support classification as a car-
Ertugli	flozin:		
Specie		: Mouse	
Applica	ation Route	: Oral	
	ure time	: 2 Years	
Result		: negative	
Specie		: Rat	
	ation Route	: Oral	
	ure time	: 2 Years	
Result		: negative	
Carcino ment	ogenicity - Assess-	: Weight of evic cinogen	lence does not support classification as a car-
Propyl	3,4,5-trihydroxyben	zoate:	
Specie		: Rat	
Applica	ation Route	: Ingestion	
	ure time	: 103 weeks	
Result		: negative	
-	ductive toxicity		
	ssified based on avai	lable information.	
	onents:		
Sitagli	ptin:		
Effects	on fertility		rtility/early embryonic development
		Species: Rat	
		Application Ro	
			EL Parent: 1.000 mg/kg body weight I testing did not show any effects on fertility.
	on foetal develop-		nbryo-foetal development
Effects	on lootal actorop	. 1000 i yp0. En	



Version 3.1	Revision Date: 30.09.2023	SDS Number: 2403215-00013	Date of last issue: 06.03.2023 Date of first issue: 01.02.2018
me	ent	Result: Embry	ute: Oral : LOAEL: 250 mg/kg body weight otoxic effects and adverse effects on the off- etected., No teratogenic effects
		Species: Rabb Teratogenicity	bryo-foetal development it : NOAEL: 125 mg/kg body weight atogenic effects
Fr	tugliflozin:		
	ects on fertility	Species: Rat Application Ro Fertility: NOAE Remarks: Mate	rtility/early embryonic development ute: Oral EL: 250 mg/kg body weight ernal toxicity observed. adverse effects were reported
		Species: Rabb Application Ro Fertility: NOAE	
Eff	ects on foetal develop- ent	Species: Rat Application Ro Developmenta Remarks: Adv Test Type: Em Species: Rabb Application Ro Developmenta	I Toxicity: NOAEL: 50 mg/kg body weight erse developmental effects were observed bryo-foetal development it
Pr	opyl 3,4,5-trihydroxyben	zoate:	
	ects on fertility		
Eff me	ects on foetal develop- ent	: Test Type: Em Species: Rat Application Ro Result: negativ	

## STOT - single exposure

Not classified based on available information.

## SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



# Ertugliflozin (< 5%) / Sitagliptin Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 06.03.2023
3.1	30.09.2023	2403215-00013	Date of first issue: 01.02.2018

## STOT - repeated exposure

Not classified based on available information.

## Components:

## Ertugliflozin:

Exposure routes	: Oral	
Target Organs	: Kidney, Stomach, Prostate	
Assessment	: May cause damage to organs through prolonged or repeated	b
	exposure.	

### Repeated dose toxicity

### Components:

### Sitagliptin:

Species:NOAEL:LOAEL:Application Route:Exposure time:Target Organs:	Mouse 500 mg/kg 1.000 mg/kg Oral > 2 yr Kidney
Species:NOAEL:LOAEL:Application Route:Exposure time:Target Organs:	Rat 500 mg/kg 1.000 mg/kg Oral 14 Weeks Liver, Kidney, Heart, Teeth
Species:NOAEL:LOAEL:Application Route:Exposure time:Target Organs:Symptoms:Remarks:	Dog 10 mg/kg 50 mg/kg Oral 53 Weeks Central nervous system Loss of balance The mechanism or mode of action may not be relevant in hu- mans.
Species:NOAEL:LOAEL:Application Route:Exposure time:Target Organs:Symptoms:Remarks:	Dog 2 mg/kg 10 mg/kg Oral 27 Weeks Skeletal muscle, Central nervous system Loss of balance The mechanism or mode of action may not be relevant in hu- mans.
Species:NOAEL:Application Route:	Monkey 100 mg/kg Oral

## SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



ersion 1	Revision Date: 30.09.2023	SDS Number: 2403215-00013	Date of last issue: 06.03.2023 Date of first issue: 01.02.2018
Expos	sure time	: 14 Weeks	
Rema			t adverse effects were reported
Ertug	liflozin:		
Speci	es	: Rat	
LÖAE		: 500 mg/kg	
Applic	cation Route	: Oral	
Expo	sure time	: 30 d	
Speci		: Rat	
LOAE		: 250 mg/kg	
	cation Route	: Oral	
	sure time	: 30 d	
Targe	et Organs	: Kidney	
Speci		: Rat	
LOAE		: 25 mg/kg	
	cation Route	: Oral	
	sure time	: 180 d	Ctomach
Targe	et Organs	: Kidney, Bone	e, Stomach
Speci		: Rat	
LOAE		: 25 mg/kg	
	sure time	: 90 d	traintactinal tract. Dractata
rarge	et Organs	. Kluney, Gas	trointestinal tract, Prostate
Speci		: Dog	
NOAE		: 150 mg/kg	
	cation Route	: Oral : 270 d	
Rema	sure time		t advarsa affacts ware reported
Neme		. No significar	t adverse effects were reported
Speci		: Mouse	
NOAE		: 100 mg/kg	
	cation Route	: Oral	
	sure time	: 90 d	· · · · · · · · · · · · · · · · · · ·
Rema	arks	: No significar	t adverse effects were reported
Speci		: Mouse	
NOAE		: 100 mg/kg	
	cation Route	: Oral	
	sure time	: 28 d	
	et Organs	: Bone	t a hanna affa ata wana sa sa sa s
Rema	arks	: INO SIGNIFICAR	t adverse effects were reported
Prop	yl 3,4,5-trihydroxybe	enzoate:	
Speci		· Pot	

Species	:	Rat
NOAEL	:	135 mg/kg
Application Route	:	Ingestion
Exposure time	:	13 Weeks



# Ertugliflozin (< 5%) / Sitagliptin Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 06.03.2023
3.1	30.09.2023	2403215-00013	Date of first issue: 01.02.2018

### Aspiration toxicity

Not classified based on available information.

### 11.2 Information on other hazards

### **Endocrine disrupting properties**

#### Product:

Assessment

: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

#### Experience with human exposure

### Components:

Sitagliptin:	
Inhalation	: Symptoms: upper respiratory tract infection, pharyngitis, Headache
Ingestion	: Symptoms: upper respiratory tract infection, nasopharyngitis, Headache, Nausea, Abdominal pain, Diarrhoea
Ertugliflozin:	
Ingestion	: Symptoms: The most common side effects are:, Headache, constipation, Diarrhoea, Nausea, urinary tract infection, mus- cle pain, upper respiratory tract infection

### **SECTION 12: Ecological information**

### 12.1 Toxicity

Components:		
Sitagliptin:		
Toxicity to fish	:	LC50 (Pimephales promelas (fathead minnow)): > 100 mg/l Exposure time: 96 h Method: OECD Test Guideline 203
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 60 mg/l Exposure time: 48 h Method: OECD Test Guideline 202
Toxicity to algae/aquatic plants	:	EC50 (Pseudokirchneriella subcapitata (green algae)): > 39 mg/l Exposure time: 96 h Method: OECD Test Guideline 201
		NOEC (Pseudokirchneriella subcapitata (green algae)): 2,2 mg/l Exposure time: 96 h Method: OECD Test Guideline 201

# SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



\_

Versi 3.1	on	Revision Date: 30.09.2023		9S Number: 03215-00013	Date of last issue: 06.03.2023 Date of first issue: 01.02.2018
	Toxicity	r to microorganisms	:	EC50 : > 150 mg/l Exposure time: 3 l Test Type: Respir Method: OECD Te	ו ation inhibition
				NOEC : 150 mg/l Exposure time: 3 l Test Type: Respire	
	Toxicity city)	to fish (Chronic tox-	:	NOEC: 9,2 mg/l Exposure time: 33 Species: Pimepha Method: OECD Te	les promelas (fathead minnow)
i		to daphnia and other invertebrates (Chron- ty)	:	NOEC: 9,8 mg/l Exposure time: 21 Species: Daphnia Method: OECD Te	magna (Water flea)
1	Ertugli	flozin:			
-	-	to algae/aquatic	:	EC50 (Pseudokiro Exposure time: 72 Method: OECD Te	
				NOEC (Pseudokir mg/l Exposure time: 72 Method: OECD Te	
-	Toxicity	to microorganisms	:	EC50 : > 1.000 mg Exposure time: 3 f Test Type: Respir Method: OECD Te	ation inhibition
				NOEC : 1.000 mg, Exposure time: 3 I Test Type: Respir Method: OECD Te	ו ation inhibition
	Toxicity icity)	to fish (Chronic tox-	:	Method: OECD Te	les promelas (fathead minnow)
i		to daphnia and other invertebrates (Chron- ty)	:	Method: OECD Te	magna (Water flea)



Vers 3.1	sion	Revision Date: 30.09.2023		0S Number: 03215-00013	Date of last issue: 06.03.2023 Date of first issue: 01.02.2018
	Propyl	3,4,5-trihydroxybenz	oat	e:	
	Toxicity	to daphnia and other invertebrates		EC50 (Daphnia m Exposure time: 48 Test substance: N	nagna (Water flea)): 19,06 mg/l 3 h Neutralised product est Guideline 202
	Toxicity plants	v to algae/aquatic	:	mg/l Exposure time: 72 Test substance: N Method: OECD T EC10 (Pseudokiro mg/l Exposure time: 72	Neutralised product est Guideline 201 chneriella subcapitata (green algae)): 0,17 2 h Neutralised product
	M-Facto icity)	or (Acute aquatic tox-	:	1	
	Toxicity	to microorganisms	:	EC50 : 636 mg/l Exposure time: 3 Method: OECD T	
12.2	Persist	tence and degradabil	ity		
	Compo	onents:			
	<b>Sitaglij</b> Biodegi	otin: radability	:	Result: not rapidly Biodegradation: 3 Exposure time: 28 Method: OECD T	39,7 <sup>°</sup> % 3 d
	Stability	y in water	:	pH: 7 Hydrolysis: 50 %( Method: OECD T	
	Ertugli	flozin:			
	Biodeg	radability	:	Result: Not readil Biodegradation: 4 Exposure time: 28	40,8 %
	Propyl	3,4,5-trihydroxybenz	oat	e:	
	Biodeg	radability	:	Result: Not readil Biodegradation: 4 Exposure time: 28 Method: OECD T	49,4 %



# Ertugliflozin (< 5%) / Sitagliptin Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 06.03.2023
3.1	30.09.2023	2403215-00013	Date of first issue: 01.02.2018

### 12.3 Bioaccumulative potential

#### Components:

#### Sitagliptin:

Partition coefficient: n- octanol/water	:	log Pow: -0,03
Ertugliflozin:		

Partition coefficient: n-	:	log Pow: 2,47
octanol/water		

### Propyl 3,4,5-trihydroxybenzoate:

Partition coefficient: n-	:	log Pow: 1,8
octanol/water		Remarks: Calculation

### 12.4 Mobility in soil

### **Components:**

### Sitagliptin:

Ertualiflozin:		
mental compartments		
Distribution among environ-	:	log Koc: 4,37

#### Ertugliflozin:

Distribution among environ- : log Koc: 2,88 mental compartments

### 12.5 Results of PBT and vPvB assessment

### Product:

Assessment

: This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

### **12.6 Endocrine disrupting properties**

#### Product:

Assessment

: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

### 12.7 Other adverse effects

No data available

### **SECTION 13: Disposal considerations**

### 13.1 Waste treatment methods



Version 3.1	Revision Date: 30.09.2023	SDS Number: 2403215-00013	Date of last issue: 06.03.2023 Date of first issue: 01.02.2018
According to are not produ Waste codes discussion w		According to the are not product Waste codes sh discussion with	cordance with local regulations. European Waste Catalogue, Waste Codes specific, but application specific. ould be assigned by the user, preferably in the waste disposal authorities. of waste into sewer.
Conta	minated packaging	<ul> <li>Empty containers should be taken to an approved waste dling site for recycling or disposal.</li> <li>If not otherwise specified: Dispose of as unused product</li> </ul>	

### **SECTION 14: Transport information**

### 14.1 UN number or ID number

	ADN	:	Not regulated as a dangerous good
	ADR	:	Not regulated as a dangerous good
	RID	:	Not regulated as a dangerous good
	IMDG	:	Not regulated as a dangerous good
	ΙΑΤΑ	:	Not regulated as a dangerous good
14.2	2 UN proper shipping name		
	ADN	:	Not regulated as a dangerous good
	ADR	:	Not regulated as a dangerous good
	RID	:	Not regulated as a dangerous good
	IMDG	:	Not regulated as a dangerous good
	ΙΑΤΑ	:	Not regulated as a dangerous good
14.3	3 Transport hazard class(es)		
	ADN	:	Not regulated as a dangerous good
	ADR	:	Not regulated as a dangerous good
	RID	:	Not regulated as a dangerous good
	IMDG	:	Not regulated as a dangerous good
	ΙΑΤΑ	:	Not regulated as a dangerous good
14.4	Packing group		
	ADN	:	Not regulated as a dangerous good
	ADR	:	Not regulated as a dangerous good
	RID	:	Not regulated as a dangerous good
	IMDG	:	Not regulated as a dangerous good
	IATA (Cargo)	:	Not regulated as a dangerous good
	IATA (Passenger)	:	Not regulated as a dangerous good



Version	Revision Date:	SDS Number:	Date of last issue: 06.03.2023
3.1	30.09.2023	2403215-00013	Date of first issue: 01.02.2018

### 14.5 Environmental hazards

Not regulated as a dangerous good

### 14.6 Special precautions for user

Not applicable

#### 14.7 Maritime transport in bulk according to IMO instruments

Remarks

: Not applicable for product as supplied.

### **SECTION 15: Regulatory information**

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII)	:	Conditions of restriction for the fol- lowing entries should be considered: Number on list 75 If you intend to use this product as tattoo ink, please contact your ven- dor.
		Substance(s) or mixture(s) are listed here according to their appearance in the regulation, irrespective of their use/purpose or the conditions of the restriction. Please refer to the condi- tions in corresponding Regulation to determine whether an entry is appli- cable to the placing on the market or not.
REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).	:	Not applicable
REACH - List of substances subject to authorisation (Annex XIV)	:	Not applicable
Regulation (EC) No 1005/2009 on substances that deplete the ozone layer	:	Not applicable
Regulation (EU) 2019/1021 on persistent organic pollu- tants (recast)	:	Not applicable
Regulation (EC) No 649/2012 of the European Parlia- ment and the Council concerning the export and import of dangerous chemicals	:	Not applicable
Seveso III: Directive 2012/18/EU of the European Parlian	nent	t and of the Council on the control of

major-accident hazards involving dangerous substances.

Not applicable

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

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



# Ertugliflozin (< 5%) / Sitagliptin Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 06.03.2023
3.1	30.09.2023	2403215-00013	Date of first issue: 01.02.2018

### 15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

SECTION 16: Other informat	tion	
Other information	:	Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.
Full text of H-Statements		
H302	:	Harmful if swallowed.
H314	:	Causes severe skin burns and eye damage.
H317	:	May cause an allergic skin reaction.

H317	:	May cause an allergic skin reaction.
H318	:	Causes serious eye damage.
H319	:	Causes serious eye irritation.
H373	:	May cause damage to organs through prolonged or repeated exposure if swallowed.
H400	:	Very toxic to aquatic life.
H411	:	Toxic to aquatic life with long lasting effects.

#### Full text of other abbreviations

FOR-2011-12-06-1358 : Norway. Oc	e damage n ion
FOR-2011-12-06-1358 / : Long term (	exposure limit

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA -European Chemicals Agency; EC-Number - European Community number; 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; 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; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Ef-



Version	Revision Date:	SDS Number:	Date of last issue: 06.03.2023
3.1	30.09.2023	2403215-00013	Date of first issue: 01.02.2018

fect Level; NOELR - No Observable Effect Loading Rate; 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; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; 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

### 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 Agen- cy, http://echa.europa.eu/	
Classification of the mixtur	e:		Classification procedure:
Skin Irrit. 2	H3	15	Calculation method
Eye Dam. 1	H3	18	Calculation method

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.

NO / EN