

Version 3.1	Revision Date: 30.09.2023	SDS N 240034	umber: 10-00013	Date of last issue: 06.03.2023 Date of first issue: 01.02.2018
SECTIO	N 1: Identification of	the sub	stance/mix	ture and of the company/undertaking
1.1 Produ	uct identifier			
	e name	: Erti	ugliflozin (< 5	i%) / Sitagliptin Formulation
	vant identified uses of t	he subs	tance or mix	ture and uses advised against
Use	of the Sub- ce/Mixture		armaceutical	
Reco on us	ommended restrictions se	: Not	applicable	
1.3 Detail	Is of the supplier of the	e safetv o	lata sheet	
	pany	: MS 117	D ′ 16th Road	ouse, Midrand, South Africa
Telep	phone	: +27	7 11 655 300	0
	ail address of person onsible for the SDS	: EH	SDATASTEV	VARD@msd.com
	gency telephone numb 08-423-6000	ber		
SECTIO	N 2: Hazards identifi	cation		
2.1 Class	ification of the substa	nce or m	ixture	
	sification (REGULATIO			8)
Skin	irritation, Category 2 bus eye damage, Catego	. ,	H315	: Causes skin irritation. : Causes serious eye damage.
2.2 Label	elements			
	elling (REGULATION (E ard pictograms	:C) No 12 :	.72/2008)	
Signa	al word	: Dan	ger	
		1.10.4	- 0	I to instant a the s

Hazard statements:H315
H318Causes skin irritation.
Causes serious eye damage.Precautionary statements:Prevention:
P264Prevention:
Wash skin thoroughly after handling.



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		P280 Wear pro	otective gloves/ eye protection/ face protection.
		with water for sev sent and easy to POISON CENTE P332 + P313 If attention.	P338 + P310 IF IN EYES: Rinse cautiously veral minutes. Remove contact lenses, if pre- do. Continue rinsing. Immediately call a R/ doctor. f skin irritation occurs: Get medical advice/ Take off contaminated clothing and wash it

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.

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 Eye Dam. 1; H318 STOT RE 2; H373 (Kidney, Stomach, Prostate)	>= 3 - < 5
Propyl 3,4,5-trihydroxybenzoate	121-79-9 204-498-2 607-198-00-3	Acute Tox. 4; H302 Eye Dam. 1; H318 Skin Sens. 1; H317 Aquatic Acute 1; H400 Aquatic Chronic 2; H411 	>= 0,25 - < 1



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				aquatic toxicity): 1
For e	xplanation of abbrevia	ations see s	ection 16.	
ECTION	4: First aid meas	ures		
.1 Descri	iption of first aid me	asures		
Gene	ral advice	vice Wh	e immediate	accident or if you feel unwell, seek medical ad- ely. ns persist or in all cases of doubt seek medical
Prote	ction of first-aiders	and	use the red	onders should pay attention to self-protection, commended personal protective equipment ntial for exposure exists (see section 8).
lf inha	aled			ove to fresh air. ttention if symptoms occur.
In cas	se of skin contact	for and Get Wa	at least 15 r l shoes. : medical att sh clothing	tact, immediately flush skin with plenty of water minutes while removing contaminated clothing ttention. before reuse. ean shoes before reuse.
In cas	se of eye contact	for If e	at least 15 r asy to do, re	tact, immediately flush eyes with plenty of water minutes. emove contact lens, if worn. ttention immediately.
lf swa	llowed	Get	medical at	DO NOT induce vomiting. ttention if symptoms occur. horoughly with water.
.2 Most i	mportant symptoms	and effec	ts, both ac	ute and delayed
Risks			uses skin irr uses serious	ritation. s eye damage.
		Ma	y produce a	an allergic reaction.
.3 Indica	tion of any immedia	te medical	attention a	and special treatment needed
Treat	ment	: Tre	at symptom	natically and supportively.

5.1 Extinguishing media				
Suitable extinguishing media	:			

Water spray Alcohol-resistant foam Carbon dioxide (CO2)



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			Dry chemical	
	suitable extinguishing dia	:	None known.	
5.2 Spe	cial hazards arising from	the	substance or mix	xture
	ecific hazards during fire- nting	:	concentrations, an potential 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	:	Carbon oxides Metal oxides Oxides of phosph	orus
5.3 Adv	vice for firefighters			
	ecial protective equipment firefighters	:		e, wear self-contained breathing apparatus. tective equipment.
Sp od:	ecific extinguishing meth- S	:	cumstances and t Use water spray t	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 measures

6.1 Personal precautions, protective 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.
		Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages
		cannot be contained.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up	 Sweep up or vacuum up spillage and collect in suitable container for disposal. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration. Local or national regulations may apply to releases and disposal of this material, as well as these materials and items
	Local or national regulations may apply to releases and dis- posal of this material, as well as those materials and items employed in the cleanup of releases. You will need to deter-



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		Sections 13 and	ulations are applicable. d 15 of this SDS provide information regarding national requirements.
	nce to other sections ns: 7, 8, 11, 12 and 13.		
SECTION	7: Handling and st	orage	
7.1 Precau	utions for safe handlir	Ig	
	nical measures	: Static electricity causing an exp Provide adequa	ate precautions, such as electrical grounding
Advice	Total ventilation e on safe handling ne measures	 Use only with a Do not get on s Do not breathe Do not swallow Do not get in ey Wash skin thord Handle in accord practice, based sessment Keep container Minimize dust ge Keep container Keep away from Take precaution Take precaution Take care to pr environment. If exposure to c flushing system place. When us 	dust. ves. oughly after handling. rdance with good industrial hygiene and safety on the results of the workplace exposure as-
		The effective op engineering cor appropriate deg	peration of a facility should include review of ntrols, proper personal protective equipment, gowning and decontamination procedures, ne monitoring, medical surveillance and the
	tions for safe storage,	•••	-
•	rements for storage and containers		y labelled containers. Keep tightly closed. ance with the particular national regulations.
Advic	e on common storage	: Do not store wi Strong oxidizing	th the following product types: g agents
7.3 Specifi	ic end use(s)		
-	fic use(s)	: No data availab	le



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SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Sitagliptin	654671-77- 9	TWA	0.5 mg/m3 (OEB 2)	Internal
Cellulose	9004-34-6	OEL-RL	10 mg/m3	ZA OEL
	Further information: Occupational Exposure Limits - Restricted Limits For			Limits For
Hazardous Chemical Agents				
Ertugliflozin	1210344-	TWA	10 µg/m3 (OEB 3)	Internal
	83-4			
		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

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.

SAFETY DATA SHEET



Ertugliflozin (< 5%) / Sitagliptin Formulation

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Pers	onal protective equipm	nent			
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	d protection				
М	Material		Chemical-resistant gloves		
	emarks and body protection	:	 Consider double gloving. Work uniform or laboratory coat. Additional body garments should be used based upon the tas being performed (e.g., sleevelets, apron, gauntlets, disposabl suits) to avoid exposed skin surfaces. Use appropriate degowning techniques to remove potentially 		
Resp	iratory protection	:	contaminated clothing. If adequate local exhaust ventilation is not available or expo- sure assessment demonstrates exposures outside the rec- ommended guidelines, use respiratory protection.		
Fi	lter type	:	Particulates type (P)		

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance Colour Odour Odour Threshold	:	powder No data available No data available No data available
рН	:	No data available
Melting point/freezing point	:	No data available
Initial boiling point and boiling	:	No data available
range Flash point	:	Not applicable
Evaporation rate	:	Not applicable
Flammability (solid, gas)	:	May form explosive dust-air mixture during processing, han- dling or other means.
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapour pressure	:	Not applicable
Relative vapour density	:	Not applicable



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Relative density		:	No data available	e	
Density		:	No data available	e	
Solubility(ies) Water solubility Partition coefficient: n- octanol/water Auto-ignition temperature		: : :	No data available Not applicable No data available	-	
D	ecom	position temperature	:	No data available	e
		osity, kinematic	:	Not applicable	
E	Explosive properties		:	Not explosive	
0	Dxidizir	ng properties	:	The substance o	r mixture is not classified as oxidizing.
9.2 Ot	ther in	formation			
FI	lamma	ability (liquids)	:	No data available	e
Μ	lolecu	lar weight	:	No data available	e
P	Particle	size	:	No data available	e

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	 May form explosive dust-air mixture during processing, han- dling or other means. Can react with strong oxidizing agents.
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 products

No hazardous decomposition products are known.



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ECTION	11: Toxicological	infor	mation	
1 1 Infor	mation on toxicologi	cal of	facts	
	nation on likely routes			
Acute	e toxicity			
Not c	lassified based on ava	ilable	information.	
Produ Acute	uct: e oral toxicity	:	Acute toxicity e Method: Calcul	stimate: > 2.000 mg/kg ation method
<u>Com</u>	oonents:			
Sitag	liptin:			
Acute	e oral toxicity	:	LD50 (Rat): > 3	3.000 mg/kg
			LD50 (Mouse):	3.000 mg/kg
-	liflozin:			
Acute	e oral toxicity	:	LD50 (Rat): 50	0 mg/kg
Acute	inhalation toxicity	:	Remarks: No d	ata available
Acute	e dermal toxicity	:	Remarks: No d	ata available
Prop	yl 3,4,5-trihydroxybei	nzoat	e:	
Acute	e oral toxicity	:	LD50 (Mouse, f	female): > 1.000 - 2.000 mg/kg
Acute	e dermal toxicity	:		2.000 mg/kg) Test Guideline 402 he substance or mixture has no acute dermal
-	corrosion/irritation es skin irritation.			
Com	ponents:			
Sitag	liptin:			
Speci Metho Resul	bd	:	Rabbit Draize Test No skin irritatio	n
Ertug	liflozin:			
Resu	lt	:	Corrosive	

Propyl 3,4,5-trihydroxybenzoate:



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Species Method		reconstructed human epidermis (RhE)OECD Test Guideline 439		
Result		: No skin irritation		
Cause	us eye damage/eye es serious eye damag ponents:			
Sitagl				
Specie Metho Result	es od	: Rabbit : Draize Test : Irritating to eyes.		
Ertug	liflozin:			
Result	t	: Severe irritation		
Propy	vl 3,4,5-trihydroxybe	nzoate:		
Specie Metho Result	d	 Rabbit OECD Test Guideline 405 Irreversible effects on the eye 		
Respi	ratory or skin sensi	tisation		
Skin s	sensitisation			
Skin s Not cla Respi	-	ilable information.		
Skin s Not cla Respi Not cla	sensitisation assified based on avainatory sensitisation	ilable information.		
Skin s Not cla Respi Not cla	sensitisation assified based on avainatory sensitisation assified based on avainatory conents:	ilable information.		
Skin s Not cla Respi Not cla <u>Comp</u>	sensitisation assified based on avaination assified based on avaination as	ilable information.		
Skin s Not cla Respi Not cla <u>Comp</u> Sitagl Test T Specie Metho Result	sensitisation assified based on avaination assified based on avaination as	uilable information. uilable information. : Local lymph node assay (LLNA) : Mouse : OECD Test Guideline 429		
Skin s Not cla Respi Not cla <u>Comp</u> Sitagl Test T Specie Metho Result	sensitisation assified based on ava ratory sensitisation assified based on ava <u>conents:</u> iptin: ype es od t liflozin: ype	nilable information. nilable information. : Local lymph node assay (LLNA) : Mouse : OECD Test Guideline 429		
Skin s Not cla Respi Not cla Comp Sitagl Test T Specie Metho Result Ertug Test T Result	sensitisation assified based on avaination assified based on avaination as	 ailable information. ilable information. information. <l< td=""></l<>		
Skin s Not cla Respi Not cla Comp Sitagl Test T Specia Metho Result Test T Result Propy Test T	sensitisation assified based on avaination assified based on avaination as	 ailable information. ilable information. information. <l< td=""></l<>		



sion	Revision Date: 30.09.2023	SDS Number: 2400340-00013	Date of last issue: 06.03.2023 Date of first issue: 01.02.2018
Not cla	cell mutagenicity assified based on av	ailable information.	
	onents:		
Sitagl Genot	iptin: oxicity in vitro	: Test Type: Ame Result: negative	
			omosome aberration test in vitro ninese hamster ovary cells e
Genot	oxicity in vivo	: Test Type: Micr Species: Mouse Application Rou Result: negative	e ite: Oral
Ertug	liflozin:		
Genot	oxicity in vitro	: Test Type: Bac Result: negative	terial reverse mutation assay (AMES)
		Test Type: Chro Result: negative	omosome aberration test in vitro
Genot	oxicity in vivo	: Test Type: Man cytogenetic ass Species: Rat Result: negative	
Pronv	1 3,4,5-trihydroxybe	anzoate.	
•••	oxicity in vitro		terial reverse mutation assay (AMES)
		Test Type: In vi Result: positive	tro mammalian cell gene mutation test
		Test Type: Chro Result: positive	pmosome aberration test in vitro
			A damage and repair, unscheduled DNA syn alian cells (in vitro) e
		Test Type: In vi malian cells Result: positive	tro sister chromatid exchange assay in man
Genot	oxicity in vivo	: Test Type: Man	nmalian erythrocyte micronucleus test (in viv



rsion	Revision Date: 30.09.2023		S Number: 00340-00013	Date of last issue: 06.03.2023 Date of first issue: 01.02.2018
			cytogenetic assa Species: Mouse Application Rout Result: negative	e: Intraperitoneal injection
	nogenicity assified based on avai	lable	information.	
Comp	oonents:			
Sitag	liptin:			
Speci	-	:	Mouse	
	cation Route	:	Oral	
	sure time	:	2 Years	
Resul	t	:	negative	
Speci		:	Rat	
	cation Route	:	oral (drinking wa	iter)
	sure time	:	2 Years	
Resul	t t Organs		positive Liver	
Rema		:		ty observed in testing
0	· · · · · · · · · · · · · · · · · · ·		-	-
ment	nogenicity - Assess-	:	cinogen	nce does not support classification as a car-
Ertug	liflozin:			
Speci		:	Mouse	
	cation Route	:	Oral	
	sure time	:	2 Years	
Resul	t	:	negative	
Speci	es	:	Rat	
Applic	cation Route	:	Oral	
	sure time	:	2 Years	
Resul	t	:	negative	
Carcii ment	nogenicity - Assess-	:	Weight of evider cinogen	nce does not support classification as a car-
Propy	yl 3,4,5-trihydroxyber	nzoate) :	
Speci		:	Rat	
	cation Route	:	Ingestion	
•	sure time	:	103 weeks	
Resul	ll in the second se	•	negative	
Repro	oductive toxicity			
Not cl	assified based on avai	lable	information.	
<u>Comp</u>	oonents:			
Sitad	liptin:			
-	s on fertility	•	Test Type: Fertil	ity/early embryonic development
	o on rording	•		



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Effec ment	ts on foetal develop-	Species: Ra Application F Teratogenici Result: Emb	
		Species: Ra Teratogenici	mbryo-foetal development bbit ty: NOAEL: 125 mg/kg body weight eratogenic effects
Ertuç	gliflozin:		
-	ts on fertility	Species: Ra Application F Fertility: NO/ Remarks: M	
		Species: Ra Application F Fertility: NO	
Effec ment	ts on foetal develop-	Species: Ra Application F Developmen	
		Species: Ra Application F Developmen	
Prop	yl 3,4,5-trihydroxyben	zoate:	
-	ts on fertility	: Test Type: T Species: Ra	Route: Ingestion
Effec ment	ts on foetal develop-	Species: Ra	Route: Ingestion



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STO	T - single exposure		
Not o	classified based on ava	ailable information.	
STO	T - repeated exposur	e	
	classified based on ava		
Com	ponents:		
	gliflozin:		
	osure routes	: Oral	
	et Organs	: Kidney, Stoma	ach, Prostate
Asse	essment	: May cause da exposure.	mage to organs through prolonged or repeated
Repe	eated dose toxicity		
Com	ponents:		
Sitag	gliptin:		
Spec		: Mouse	
NOA		: 500 mg/kg	
LOA		: 1.000 mg/kg	
	ication Route	: Oral : > 2 yr	
	et Organs	: Kidney	
-	-	. Kanoy	
Spec		: Rat	
NOA LOA		: 500 mg/kg	
	⊏∟ ication Route	: 1.000 mg/kg : Oral	
	sure time	: 14 Weeks	
	et Organs	: Liver, Kidney,	Heart, Teeth
Spec	cies	: Dog	
NOA		: 10 mg/kg	
LOA		: 50 mg/kg	
	ication Route	: Oral : 53 Weeks	
	osure time et Organs	: Central nervou	is system
	ptoms	: Loss of balance	
Rem			m or mode of action may not be relevant in hu-
Spec	cies	: Dog	
NOA	EL	: 2 mg/kg	
LOA		: 10 mg/kg	
	ication Route	: Oral	
	osure time et Organs	: 27 Weeks	le, Central nervous system
	ptoms	: Loss of balance	
Rem	•		m or mode of action may not be relevant in hu-
Spec		: Monkey	
NOA	EL	: 100 mg/kg	



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	cation Route sure time arks	: Oral : 14 Weeks : No significant	adverse effects were reported
Ertug	gliflozin:		
		: 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, Gastr	pintestinal tract, Prostate
	EL cation Route sure time	: Dog : 150 mg/kg : Oral : 270 d : No significant	adverse effects were reported
	EL cation Route sure time	: Mouse : 100 mg/kg : Oral : 90 d : No significant	adverse effects were reported
Expo	EL cation Route sure time et Organs	: Mouse : 100 mg/kg : Oral : 28 d : Bone : No significant	adverse effects were reported
-	yl 3,4,5-trihydroxybe		
Spec	163	: Rat	

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



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•	Aspiration toxicity							
Not c	lassified based on avai	lable	information.					
Expe	rience with human ex	pos	ure					
Com	oonents:							
Sitag	liptin:							
Inhala	ation	:	Symptoms: upper Headache	r respiratory tract infection, pharyngitis,				
Inges	tion	:		r respiratory tract infection, nasopharyngitis, ea, Abdominal pain, Diarrhoea				
Ertug	liflozin:							
Inges	tion	:	constipation, Diar	nost common side effects are:, Headache, rhoea, Nausea, urinary tract infection, mus- spiratory 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
Toxicity to microorganisms	:	EC50 : > 150 mg/l Exposure time: 3 h Test Type: Respiration inhibition Method: OECD Test Guideline 209
		NOEC : 150 mg/l Exposure time: 3 h Test Type: Respiration inhibition
Toxicity to fish (Chronic tox- icity)	:	NOEC: 9,2 mg/l Exposure time: 33 d Species: Pimephales promelas (fathead minnow)



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			Method: OECD Te	est Guideline 210		
Toxicity to daphnia and other aquatic invertebrates (Chron- ic toxicity)		:	NOEC: 9,8 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea) Method: OECD Test Guideline 211			
_	liflozin: ty to algae/aquatic	:	EC50 (Pseudokiro Exposure time: 72 Method: OECD Te			
			NOEC (Pseudokir mg/l Exposure time: 72 Method: OECD Te			
Toxici	ty to microorganisms	:	EC50 : > 1.000 m Exposure time: 3 Test Type: Respir Method: OECD Te	h ation inhibition		
			NOEC : 1.000 mg Exposure time: 3 Test Type: Respir Method: OECD Te	h ation inhibition		
Toxici icity)	ty to fish (Chronic tox-	:	Method: OECD Te	lles promelas (fathead minnow)		
	ty to daphnia and other c invertebrates (Chron- city)	:	: NOEC: 2,14 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea) Method: OECD Test Guideline 211 Remarks: No toxicity at the limit of solubility			
Propy	d 3,4,5-trihydroxybenz	oate) :			
	ty to daphnia and other c invertebrates	:	Exposure time: 48	leutralised product		
Toxici plants	ty to algae/aquatic	:	mg/l Exposure time: 72	leutralised product		
			EC10 (Pseudokiro mg/l Exposure time: 72	chneriella subcapitata (green algae)): 0,17 ? h		
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					Neutralised product Test Guideline 201	
	M-Fact icity)	or (Acute aquatic tox-	:	1		
	Toxicity to microorganisms		:	: EC50 : 636 mg/l Exposure time: 3 h Method: OECD Test Guideline 209		
12.2	Persis	tence and degradabi	lity			
	Compo	onents:				
	Sitagli	ptin:				
	Biodeg	radability	:	Result: not rapidl Biodegradation: Exposure time: 2 Method: OECD T	39,7 %	
	Stabilit	y in water	:	pH: 7 Hydrolysis: 50 % Method: OECD T	(401 d) est Guideline 111	
	Ertugli	iflozin:				
	Biodeg	radability	:	Result: Not readil Biodegradation: Exposure time: 2	40,8 %	
	Propyl	3,4,5-trihydroxybenz	oat	e:		
	Biodeg	radability	:	Result: Not readil Biodegradation: Exposure time: 2 Method: OECD T	49,4 %	
12.3	Bioaco	cumulative potential				
	Compo	onents:				
	Sitagli Partitio octano	n coefficient: n-	:	log Pow: -0,03		
	Ertugli Partitio octano	n coefficient: n-	:	log Pow: 2,47		
	Propyl	3,4,5-trihydroxybenz	oat	e:		
	Partitio octano	n coefficient: n- l/water	:	log Pow: 1,8 Remarks: Calcula	ation	



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12.4 Mobi	ility in soil		
Com	ponents:		
Sitag	liptin:		
	bution among environ- al compartments	: log Koc: 4,3	37
Ertuç	gliflozin:		
	bution among environ- al compartments	: log Koc: 2,8	8
12.5 Resu	llts of PBT and vPvB a	ssessment	
<u>Prod</u>	uct:		
Asse	ssment	to be either	nce/mixture contains no components considered persistent, bioaccumulative and toxic (PBT), or ent and very bioaccumulative (vPvB) at levels of her.
12.6 Othe	er adverse effects		
Prod	uct:		
Endo tial	crine disrupting poten-	ered to hav REACH Art (EU) 2017/2	nce/mixture does not contain components consid- e endocrine disrupting properties according to icle 57(f) or Commission Delegated regulation 2100 or Commission Regulation (EU) 2018/605 at % or higher.
SECTION	N 13: Disposal consi	derations	
13 1 Was	te treatment methods		
Produ		: Dispose of	n accordance with local regulations.
		According t are not proo Waste code	the European Waste Catalogue, Waste Codes duct specific, but application specific. s should be assigned by the user, preferably in with the waste disposal authorities

		discussion with the waste disposal authorities. Do not dispose of waste into sewer.
Contaminated packaging	:	Empty containers should be taken to an approved waste han- dling site for recycling or disposal. If not otherwise specified: Dispose of as unused product.

SECTION 14: Transport information

14.1 UN 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



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14.2 UN p	roper shipping name					
ADN		: Not regulated	as a dangerous good			
ADR		: Not regulated	as a dangerous good			
RID		: Not regulated	as a dangerous good			
IMDG	ì	: Not regulated	as a dangerous good			
ΙΑΤΑ		: Not regulated	Not regulated as a dangerous good			
14.3 Tran	sport 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	ì	: Not regulated	as a dangerous good			
ΙΑΤΑ		: Not regulated	as a dangerous good			
14.4 Pack	ing group					
ADN		: Not regulated	as a dangerous good			
ADR		: Not regulated	as a dangerous good			
RID		: Not regulated	as a dangerous good			
IMDG	ì	: Not regulated	as a dangerous good			
ΙΑΤΑ	(Cargo)	: Not regulated	as a dangerous good			
ΙΑΤΑ	(Passenger)	: Not regulated	as a dangerous good			
-	r onmental hazards egulated as a dangero	is good				
	ial precautions for us pplicable	ser				
14.7 Tran Rema	•	-	arpol and the IBC Code e for product as supplied.			
	N 15: Regulatory inf		/legislation specific for the substance or m			

ture

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

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

15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.



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SECTION	N 16: Other inform	ation					
Othe	r information		anges have been made to the previous version in the body of this document by two vertical				
Full t	text of H-Statements						
H302	2	: Harmful if swal	lowed.				
H314	Ļ	: Causes severe	skin burns and eye damage.				
H317	,		allergic skin reaction.				
H318		: Causes serious					
H319			Causes serious eye irritation.				
H373			May cause damage to organs through prolonged or repeated				
11400			exposure if swallowed.				
H400 H411			Very toxic to aquatic life.Toxic to aquatic life with long lasting effects.				
			c life with long lasting effects.				
Full t	text of other abbrevi	ations					
	e Tox.	: Acute toxicity					
	itic Acute		ute) aquatic hazard				
	tic Chronic		Long-term (chronic) aquatic hazard				
Eye [: Serious eye da	mage				
Eye I		: Eye irritation					
	Corr.	: Skin corrosion					
	Sens.	: Skin sensitisati					
STO ZA O			organ toxicity - repeated exposure he Regulations for Hazardous Chemical				
ZAU	'CL		ational Exposure Limits				
		xposure Limit Restricted limit - 8- hour expo-					
Wate Road ing o tion (rways; ADR - Agree l; AIIC - Australian Inv f Materials; bw - Body EC) No 1272/2008; C e German Institute fo	nt concerning the Internent concerning the Internent concerning the Internet ventory of Industrial Ch weight; CLP - Classif CMR - Carcinogen, Mut r Standardisation; DSL	national Carriage of Dangerous Goods by Inland International Carriage of Dangerous Goods by emicals; ASTM - American Society for the Test ication Labelling Packaging Regulation; Regula tagen or Reproductive Toxicant; DIN - Standard - 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) Effect 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 - (Quanti-



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tative) 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

Classification of the mixtur	Classification procedu	
Skin Irrit. 2	H315	Calculation method
Eye Dam. 1	H318	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.

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