

Version 5.1	Revision Date: 30.09.2023		S Number: 9429-00019	Date of last issue: 06.03.2023 Date of first issue: 04.04.2016			
SECTION	1. IDENTIFICATION						
Produ	Product name		: Ertugliflozin (< 2%) / Sitagliptin Formulation				
Manu	afacturer or supplier's	deta	ils				
Com	Company		MSD				
Addre	Address		Talcahuano 750, 6th floor, Ciudad Autonoma Buenos Aires, Argentina C1013AAP				
Telep	phone	:	908-740-4000				
Emer	gency telephone	:	1-908-423-6000				
E-ma	E-mail address		EHSDATASTEWARD@msd.com				
Reco	mmended use of the	chem	ical and restricti	ons on use			
Recommended use Restrictions on use		:	Pharmaceutical Not applicable				

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification Skin corrosion/irritation : Categ	lory 2
Serious eye damage/eye : Categ irritation	ory 2A
Short-term (acute) aquatic : Categ hazard	lory 3
GHS label elements Hazard pictograms :	
Signal Word : Warni	ng
H319	Causes skin irritation. Causes serious eye irritation. Harmful to aquatic life.
P264 P273	ention: Wash skin thoroughly after handling. Avoid release to the environment. Wear protective gloves/ eye protection/ face protection.



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		P305 + P351 for several min easy to do. Co P332 + P313 tion. P337 + P313 tention.	IF ON SKIN: Wash with plenty of water. + P338 IF IN EYES: Rinse cautiously with water nutes. Remove contact lenses, if present and ontinue rinsing. If skin irritation occurs: Get medical advice/ atten- If eye irritation persists: Get medical advice/ at- Take off contaminated clothing and wash it before
		Disposal: P501 Dispose disposal plant	of contents/ container to an approved waste
••		not result in classification result in classification result in classification result in the second se	ation ssing, handling or other means.
SECTION	3. COMPOSITION/IN	IFORMATION ON ING	REDIENTS
Subs	tance / Mixture	: Mixture	
Com	ponents		

Chemical name	CAS-No.	Concentration (% w/w)
Sitagliptin	654671-77-9	>= 30 -< 50
Cellulose	9004-34-6	>= 30 -< 50
Ertugliflozin	1210344-83-4	>= 1 -< 2,5
Magnesium stearate	557-04-0	>= 1 -< 5
Propyl 3,4,5-trihydroxybenzoate	121-79-9	>= 0,25 -< 1

SECTION 4. FIRST AID MEASURES

General advice	:	In the case of accident or if you feel unwell, seek medical advice immediately. When symptoms persist or in all cases of doubt seek medical advice.
If inhaled	:	If inhaled, remove to fresh air. Get medical attention 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.
If swallowed	:	If swallowed, DO NOT induce vomiting. Get medical attention if symptoms occur. Rinse mouth thoroughly with water.



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	important symptoms effects, both acute and	:	: Causes skin irritation. Causes serious eye irritation.				
	ection 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).				
Note	s to physician	:		atically and supportively.			
SECTION	5. FIRE-FIGHTING ME	ASL	JRES				
Suita	ble extinguishing media	:	Water spray Alcohol-resista Carbon dioxide Dry chemical				
Unsu medi	iitable extinguishing a	:	: None known.				
	ific hazards during fire	 Avoid generating dust; fine dust dispersed in air in su concentrations, and in the presence of an ignition so potential dust explosion hazard. Exposure to combustion products may be a hazard t Carbon oxides Metal oxides Oxides of phosphorus 		, and in the presence of an ignition source is a explosion hazard.			
Haza ucts	ardous combustion prod-			phorus			
Spec ods	ific extinguishing meth-	:	cumstances ar Use water spra	ing measures that are appropriate to local cir- id the surrounding environment. by to cool unopened containers. naged containers from fire area if it is safe to de			
	ial protective equipment e-fighters						

Personal precautions, protec- tive equipment and emer- gency procedures	:	Use personal protective equipment. Follow safe handling advice (see section 7) and personal protective equipment recommendations (see section 8).
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.
Methods and materials for containment and 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 those materials and items



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		determine whi Sections 13 a	ne cleanup of releases. You will need to ch regulations are applicable. nd 15 of this SDS provide information regarding r national requirements.			
SECTION	7. HANDLING AND ST	ORAGE				
Tech	nical measures	causing an ex Provide adequ	ty may accumulate and ignite suspended dust plosion. Jate precautions, such as electrical grounding or inert atmospheres.			
	/Total ventilation e on safe handling	 Use only with Do not get on Do not breathed Do not swallow Do not get in events Wash skin theorem Handle in according practice, base assessment Minimize dust Keep contained Keep away from Take precaution 	adequate ventilation. skin or clothing. e dust. w.			
Cond	litions for safe storage					
Mate	rials to avoid	: Do not store v	Do not store with the following product types: Strong oxidizing agents			

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components	CAS-No.	Value type	Control parame-	Basis
		(Form of	ters / Permissible	
		exposure)	concentration	
Sitagliptin	654671-77-9	TWA	0.5 mg/m3 (OEB	Internal
			2)	
Cellulose	9004-34-6	CMP	10 mg/m ³	AR OEL
		TWA	10 mg/m ³	ACGIH
Ertugliflozin	1210344-83-	TWA	10 µg/m3 (OEB 3)	Internal
-	4			
		Wipe limit	100 µg/100 cm ²	Internal
Magnesium stearate	557-04-0	CMP	10 mg/m ³	AR OEL
	Further inform	ation: A4 - Not o	classifiable as a huma	n carcinogen
		TWA	10 mg/m ³	ACGIH
		(Inhalable	-	
		particulate		
		matter)		
		TWA	3 mg/m ³	ACGIH
		(Respirable		

Ingredients with workplace control parameters



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				particulate matter)				
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.					
Pers	onal protective equip	ment						
Resp	iratory protection	:	exposure ass	essment demon	ilation is not availab strates exposures ou respiratory protection	utside the		
	Iter type I protection	:	Particulates ty					
М	aterial	:	Chemical-res	istant gloves				
Remarks Eye protection		:	If the work en mists or aeros Wear a faces	plasses with side vironment or act sols, wear the ap hield or other full	shields or goggles. ivity involves dusty o propriate goggles. face protection if th he face with dusts, r	ere is a		
Skin	and body protection	:	Work uniform Additional boo task being pe disposable su	rformed (e.g., sle lits) to avoid exp ate degowning te	at. uld be used based u eevelets, apron, gau osed skin surfaces. echniques to remove	ntlets,		
Hygie	ene measures	:	If exposure to eye flushing s working place When using o Contaminated workplace. Wash contam The effective engineering o appropriate d industrial hyg	chemical is like systems and safe a lo not eat, drink o work clothing s inated clothing b operation of a fa ontrols, proper p egowning and de	hould not be allowed before re-use. cility should include ersonal protective e econtamination proc medical surveillance	the I out of the review of quipment, edures,		

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	powder
Color	:	No data available
Odor	:	No data available



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	Odor Th	reshold	:	No data available	
	рН		:	No data available	
	Melting	point/freezing point	:	No data available	•
	Initial bo range	biling point and boiling	:	No data available	
	Flash po	pint	:	Not applicable	
	Evapora	ation rate	:	Not applicable	
	Flamma	bility (solid, gas)	:	May form explosi handling or other	ve dust-air mixture during processing, means.
	Flamma	bility (liquids)	:	No data available	
		xplosion limit / Upper pility limit	:	No data available	
		xplosion limit / Lower pility limit	:	No data available	
	Vapor p	ressure	:	Not applicable	
	Relative	vapor density	:	Not applicable	
	Relative	density	:	No data available	
	Density		:	No data available	
	Solubilit Wate	y(ies) er solubility	:	No data available	
	Partition octanol/	coefficient: n-	:	Not applicable	
		ition temperature	:	No data available	
	Decomp	oosition temperature	:	No data available	
	Viscosit Visco	y osity, kinematic	:	Not applicable	
	Explosiv	ve properties	:	Not explosive	
	Oxidizin	g properties	:	The substance or	mixture is not classified as oxidizing.
	Molecul	ar weight	:	No data available	
	Particle	size	:	No data available	



ECTION 10. STABILITY AND F	REAC	TIV/ITV/	
Reactivity			
Chemical stability Possibility of hazardous read tions	: : C- :	Stable under n May form explo handling or oth	as a reactivity hazard. formal conditions. osive dust-air mixture during processing, fer means. strong oxidizing agents.
Conditions to avoid Incompatible materials Hazardous decomposition products	:	Heat, flames a Avoid dust forr Oxidizing ager No hazardous	nation.
ECTION 11. TOXICOLOGICAL	. INFC	ORMATION	
Information on likely routes of exposure	of :	Inhalation Skin contact Ingestion Eye contact	
Acute toxicity Not classified based on avai	lable	information.	
Product: Acute oral toxicity	:	Acute toxicity e Method: Calcula	stimate: > 5.000 mg/kg ation method
Components:			
Sitagliptin:			
Acute oral toxicity	:	LD50 (Rat): > 3	.000 mg/kg
		LD50 (Mouse):	3.000 mg/kg
Cellulose:			
Acute oral toxicity	:	LD50 (Rat): > 5	5.000 mg/kg
Acute inhalation toxicity	:	LC50 (Rat): > 5 Exposure time: Test atmosphere	4 h
Acute dermal toxicity	:	LD50 (Rabbit):	> 2.000 mg/kg
Ertugliflozin:			
Acute oral toxicity	:	LD50 (Rat): 500) mg/kg
Acute inhalation toxicity	:	Remarks: No da	ata available
Acute dermal toxicity	:	Remarks: No da	ata available
Magnesium stearate:			



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Acute	oral toxicity	 LD50 (Rat): > 2.000 mg/kg Method: OECD Test Guideline 423 Assessment: The substance or mixture has no acute oral to icity Remarks: Based on data from similar materials
Acute	dermal toxicity	: LD50 (Rabbit): > 2.000 mg/kg Remarks: Based on data from similar materials
Propy	/l 3,4,5-trihydroxybe	zoate:
Acute	oral toxicity	: LD50 (Mouse, female): > 1.000 - 2.000 mg/kg
Acute	dermal toxicity	 LD50 (Rat): > 2.000 mg/kg Method: OECD Test Guideline 402 Assessment: The substance or mixture has no acute derma toxicity
	corrosion/irritation	
<u>Comp</u>	oonents:	
Sitag	liptin:	
Specie Metho		: Rabbit : Draize Test
Resul		: No skin irritation
Ertug	liflozin:	
Resul	t	: Corrosive
Magn	esium stearate:	
Speci		: Rabbit
Resul Rema		: No skin irritation : Based on data from similar materials
Rema		
	/l 3,4,5-trihydroxybe	
Speci Metho		: reconstructed human epidermis (RhE) : OECD Test Guideline 439
Resul	t	: No skin irritation
	us eye damage/eye es serious eye irritatio	
	oonents:	
Sitag	liptin:	
Speci	es	: Rabbit
Resul		: Irritating to eyes.
Metho	a	: Draize Test



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Ertug	liflozin:		
Resul		: Severe irrita	tion
Magn	esium stearate:		
Speci		: Rabbit	
Resul		: No eye irrita	
Rema	irks	: Based on da	ata from similar materials
Propy	/I 3,4,5-trihydroxybe	enzoate:	
Speci		: Rabbit	
Resul			effects on the eye
Metho	Da	: OECD Test	Guideline 405
Respi	iratory or skin sens	itization	
-	sensitization		
Not cl	assified based on av	ailable information.	
Respi	iratory sensitizatior	n	
Not cl	assified based on av	ailable information.	
Comp	oonents:		
Sitag	liptin:		
Test T			node assay (LLNA)
Speci		: Mouse	Ovidaliaa 100
Metho Resul		: Not a skin s	Guideline 429
Resul	L .	. Not a skin s	6130261.
Ertug	liflozin:		
Test 7			node assay (LLNA)
Resul	t	: Not a skin s	ensitizer.
Magn	esium stearate:		
Test T		: Maximizatio	
	s of exposure	: Skin contac	
Specie Metho		: Guinea pig	Guideline 406
Resul		: negative	
Rema			ata from similar materials
	/I 3,4,5-trihydroxybe -		
Test T		: Local lymph : Skin contac	node assay (LLNA)
Speci	es of exposure	: Mouse	
Resul		: positive	
		·	r ovidence of ekin consitization in humans
ASSes	sment	: Probability of	or evidence of skin sensitization in humans



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	n cell mutagenicity lassified based on av	ailable information.	
	ponents:		
	liptin:		
-	otoxicity in vitro	: Test Type: / Result: nega	
			Chromosome aberration test in vitro : Chinese hamster ovary cells ative
		thesis in ma	DNA damage and repair, unscheduled DNA syn- mmalian cells (in vitro) I: rat hepatocytes ative
Genc	otoxicity in vivo	: Test Type: I Species: Mo Application Result: nega	Route: Oral
Cellu	llose:		
Genc	toxicity in vitro	: Test Type: Result: nega	Bacterial reverse mutation assay (AMES) ative
		Test Type: I Result: nega	n vitro mammalian cell gene mutation test ative
Genc	otoxicity in vivo	cytogenetic Species: Mo	Route: Ingestion
Ertuc	gliflozin:		
-	otoxicity in vitro	: Test Type: I Result: nega	Bacterial reverse mutation assay (AMES) ative
		Test Type: (Result: nega	Chromosome aberration test in vitro ative
Genc	otoxicity in vivo	: Test Type: I cytogenetic Species: Ra Result: nega	it
Magr	nesium stearate:		
-	otoxicity in vitro	Result: nega	n vitro mammalian cell gene mutation test ative ased on data from similar materials



ersion .1	Revision Date: 30.09.2023		9429-00019	Date of last issue: 06.03.2023 Date of first issue: 04.04.2016
			Method: OECD Result: negative	omosome aberration test in vitro Test Guideline 473 e d on data from similar materials
			Result: negative	erial reverse mutation assay (AMES) e d on data from similar materials
Prop	yl 3,4,5-trihydroxyber	nzoat	e:	
	toxicity in vitro	:		erial reverse mutation assay (AMES)
			Test Type: In vit Result: positive	ro mammalian cell gene mutation test
			Test Type: Chro Result: positive	pmosome aberration test in vitro
				damage and repair, unscheduled DNA syn- alian cells (in vitro)
			Test Type: In vit malian cells Result: positive	ro sister chromatid exchange assay in mam-
Geno	toxicity in vivo	:	cytogenetic ass Species: Mouse	te: Intraperitoneal injection
	nogenicity			
	lassified based on avai ponents:	llable	information.	
Sitag Speci Applie	liptin: ies cation Route sure time	: : :	Mouse Oral 2 Years negative	
Expo Resu	cation Route sure time It et Organs		Rat oral (drinking wa 2 Years positive Liver Significant toxic	ater) ity observed in testing
Carci ment	nogenicity - Assess-	:	Weight of evide cinogen	nce does not support classification as a car-



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Cellul	ose:			
	ation Route ure time	:	Rat Ingestion 72 weeks negative	
Ertual	iflozin:			
Specie Applica	es ation Route ure time	:	Mouse Oral 2 Years negative	
	ation Route ure time	:	Rat Oral 2 Years negative	
Carcin ment	ogenicity - Assess-	:	Weight of eviden cinogen	ce does not support classification as a car-
Propy	I 3,4,5-trihydroxybenz	oate	e:	
Expos	ation Route ure time	:	Rat Ingestion 103 weeks negative	
Result		•	U	
Repro	ductive toxicity assified based on availa	able	-	
Repro Not cla	ductive toxicity	able	-	
Repro Not cla <u>Comp</u> Sitagli	ductive toxicity assified based on availa onents:	able :	information. Test Type: Fertili Species: Rat Application Route Fertility: NOAEL	ty/early embryonic development e: Oral Parent: 1.000 mg/kg body weight esting did not show any effects on fertility.
Repro Not cla <u>Comp</u> Sitagli Effects	ductive toxicity assified based on availa onents: iptin:	able :	information. Test Type: Fertili Species: Rat Application Route Fertility: NOAEL Result: Animal te Test Type: Embr Species: Rat Application Route Teratogenicity: L Result: Embryoto	e: Oral Parent: 1.000 mg/kg body weight ssting did not show any effects on fertility. yo-fetal development
Repro Not cla <u>Comp</u> Sitagli Effects	ductive toxicity assified based on availa <u>onents:</u> iptin: s on fertility	able :	information. Test Type: Fertili Species: Rat Application Route Fertility: NOAEL Result: Animal te Test Type: Embr Species: Rat Application Route Teratogenicity: L Result: Embryoto offspring were de Test Type: Embr Species: Rabbit	e: Oral Parent: 1.000 mg/kg body weight esting did not show any effects on fertility. yo-fetal development e: Oral OAEL: 250 mg/kg body weight exic effects and adverse effects on the etected., No teratogenic effects. yo-fetal development OAEL: 125 mg/kg body weight
Repro Not cla <u>Comp</u> Sitagli Effects	ductive toxicity assified based on availa onents: iptin: s on fertility s on fetal development	able :	information. Test Type: Fertili Species: Rat Application Route Fertility: NOAEL Result: Animal te Test Type: Embr Species: Rat Application Route Teratogenicity: L Result: Embryoto offspring were de Test Type: Embr Species: Rabbit Teratogenicity: N	e: Oral Parent: 1.000 mg/kg body weight esting did not show any effects on fertility. yo-fetal development e: Oral OAEL: 250 mg/kg body weight exic effects and adverse effects on the etected., No teratogenic effects. yo-fetal development OAEL: 125 mg/kg body weight
Repro Not cla Comp Sitagli Effects	ductive toxicity assified based on availa onents: iptin: s on fertility s on fetal development	able : :	information. Test Type: Fertili Species: Rat Application Route Fertility: NOAEL Result: Animal te Test Type: Embr Species: Rat Application Route Teratogenicity: L Result: Embryote offspring were de Test Type: Embr Species: Rabbit Teratogenicity: N Result: No terato	e: Oral Parent: 1.000 mg/kg body weight esting did not show any effects on fertility. yo-fetal development e: Oral OAEL: 250 mg/kg body weight exic effects and adverse effects on the etected., No teratogenic effects. yo-fetal development OAEL: 125 mg/kg body weight



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			Species: Rat Application Rout Result: negative	
Effects	s on fetal development	:	Test Type: Fertil Species: Rat Application Rout Result: negative	
Ertug	liflozin:			
Effects	s on fertility	:	Species: Rat Application Rout Fertility: NOAEL Remarks: Mater	lity/early embryonic development te: Oral : 250 mg/kg body weight nal toxicity observed. dverse effects were reported
			Species: Rabbit Application Rout Fertility: NOAEL	lity/early embryonic development te: Oral : 200 mg/kg body weight gnificant adverse effects were reported
Effects	s on fetal development	:	Species: Rat Application Rou Developmental	ryo-fetal development te: Oral Toxicity: NOAEL: 50 mg/kg body weight se developmental effects were observed
			Species: Rabbit Application Rou Developmental	
Magn	esium stearate:			
Effects	s on fertility	:	reproduction/dev Species: Rat Application Rout Method: OECD Result: negative	Test Guideline 422
Effects	s on fetal development	:	Species: Rat Application Rout Result: negative	

Propyl 3,4,5-trihydroxybenzoate:

Effects on fertility : Test Type: Two-generation reproduction toxicity study Species: Rat



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			Application Route Result: negative	: Ingestion
Effect	s on fetal development	:	Test Type: Embry Species: Rat Application Route Result: negative	o-fetal development : Ingestion
	-single exposure lassified based on availa	ble	information.	
STOT	-repeated exposure			
Not cl	assified based on availa	ble	information.	
Com	oonents:			
Ertug	liflozin:			
Route	es of exposure	:	Oral	
	et Organs	:	Kidney, Stomach,	
Asses	ssment	:	exposure.	ge to organs through prolonged or repeated
Repe	ated dose toxicity			
<u>Com</u>	oonents:			
Sitag	liptin:			
Speci		:	Mouse	
NOAE LOAE		÷	500 mg/kg 1.000 mg/kg	
	cation Route	÷	Oral	
	sure time	÷	> 2 y	
Targe	et Organs	:	Kidney	
Speci		:	Rat	
		:	500 mg/kg	
LOAE	:L cation Route	:	1.000 mg/kg Oral	
	sure time	÷	14 Weeks	
	et Organs	:	Liver, Kidney, Hea	art, Teeth
Speci		:	Dog	
		:	10 mg/kg	
LOAE Applic	:L cation Route	:	50 mg/kg Oral	
	sure time	÷	53 Weeks	
Targe	et Organs	:	Central nervous s	ystem
Symp Rema		:	Loss of balance	r mode of action may not be relevant in
Reine	ai no	•	humans.	r mode of action may not be relevant in
Speci	es	:	Dog	
NOAE	EL	:	2 mg/kg	
LOAE		:	10 mg/kg Oral	
Applic	cation Route	·	Urai	



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Exposure time Target Organs Symptoms Remarks	 27 Weeks Skeletal muscle, Central nervous system Loss of balance The mechanism or mode of action may not be relevant in humans.
Species NOAEL Application Route Exposure time Remarks	 Monkey 100 mg/kg Oral 14 Weeks No significant adverse effects were reported
Cellulose: Species NOAEL Application Route Exposure time	: Rat : >= 9.000 mg/kg : Ingestion : 90 Days
Ertugliflozin: Species LOAEL Application Route Exposure time	: Rat : 500 mg/kg : Oral : 30 d
Species LOAEL Application Route Exposure time Target Organs	: Rat : 250 mg/kg : Oral : 30 d : Kidney
Species LOAEL Application Route Exposure time Target Organs	: Rat : 25 mg/kg : Oral : 180 d : Kidney, Bone, Stomach
Species LOAEL Exposure time Target Organs	: Rat : 25 mg/kg : 90 d : Kidney, Gastrointestinal tract, Prostate
Species NOAEL Application Route Exposure time Remarks	 Dog 150 mg/kg Oral 270 d No significant adverse effects were reported
Species NOAEL Application Route Exposure time Remarks	 Mouse 100 mg/kg Oral 90 d No significant adverse effects were reported
Species	: Mouse

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Ertugliflozin (< 2%) / Sitagliptin Formulation

SDS Number:

NOAEL : 100 mg/kg Application Route : Oral Exposure time : 28 d Target Organs : Bone Remarks : No significant adverse effects were reported Magnesium stearate: : Species : Rat NOAEL : > 100 mg/kg Application Route : Ingestion Exposure time : 90 Days Remarks : E Based on data from similar materials Prop! 3,4,5-trihydroxybenzoate: : Species : Rat NOAEL : 135 mg/kg Application Route : Ingestion Exposure time : 13 Weeks Aspiration toxicity Not classified based on available information. Experience with human exposure Components: Sitagliptin: : Ingestion : Symptoms: upper respiratory tract infection, pharyngitis, Headache, Nausea, Abdominal pain, Diarrhea Erugiflozin: : Ingestion : Symptoms: The most common side effects are: Headache, constipation, Diarrhea, Nausea, urinary tract infection, musc pain, upper respiratory tract infection Return : Query respiratory tract infection Toxi	rsion	Revision Date: 30.09.2023		9429-00019	Date of first issue: 06.03.2023 Date of first issue: 04.04.2016
Application Route : Oral Exposure time : 28 d Target Organs : Bone Remarks : No significant adverse effects were reported Magnesium stearate: : Species : Rat NOAEL : > 100 mg/kg Application Route : Ingestion Exposure time : 90 Days Remarks : Based on data from similar materials Propyl 3,4,5-trihydroxybenzoate: Species : Species : Rat NOAEL : 135 mg/kg Application Route : Ingestion Exposure time : 135 mg/kg Application toxicity . Not classified based on available information. Experience with human exposure . Components: Sitagliptin: . . Inhalation : Symptoms: upper respiratory tract infection, pharyngitis, Headache, constipation, Diarrhea, Nausea, urinary tract infection, musc pain, upper respiratory tract infection, musc pain, upper respiratory tract infection Ingestion : S	NOA	ΞL	:	100 mg/kg	
Target Organs :: Bone Remarks : No significant adverse effects were reported Magnesium stearate: Species :: Species :: Rat NOAEL :: > 100 mg/kg Application Route :: ingestion Exposure time :: 90 Days Remarks :: Based on data from similar materials Propt 3,4,5-trihydroxybenzoate: Species :: Species : Rat NOAEL : 135 mg/kg Application Route : Ingestion Exposure time : 13 Weeks Aspiration toxicity . Not classified based on available information. 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, Diarrhea Ertugiflozin: Ingestion : Symptoms: The most common side effects are:, Headache, constipation, Diarrhea, Nausea, urinary tract infection, musc pain,	Applie	cation Route	:	Oral	
Remarks : No significant adverse effects were reported Magnesium stearate: : Species : Rat NOAEL :: > 100 mg/kg Application Route : Ingestion Exposure time : 90 Days Remarks : Based on data from similar materials Propyl 3,4,5-trihydroxybenzoate: Species : Rat NOAEL : 135 mg/kg Application Route : Ingestion Exposure time : 135 mg/kg Application Route : Ingestion Exposure time : 13 Weeks Aspiration toxicity Not classified based on available information. Experience with human exposure Components: Sitagliptin: Inhalation : Symptoms: upper respiratory tract infection, pharyngitis. Headache Ingestion : Symptoms: The most common side effects are; Headache, constipation, Diarrhea, Nausea, urinary tract infection, music pain, upper respiratory tract infection, music pain, upper respiratory tract infection, music pain, upper respiratory tract infection CTION 12. ECOLOGICAL INFORMATION Ecotoxicity Components: Sitagliptin: Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): > 100 mg/l Exposure time: 96 h			:		
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NOAEL : > 100 mg/kg Application Route : Ingestion Exposure time : 90 Days Remarks : Based on data from similar materials Propyl 3,4,5-trihydroxybenzoate: Species : Species : Rat NOAEL : 135 mg/kg Application Route : Ingestion Exposure time : 13 Weeks Aspiration toxicity . Not classified based on available information. 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, Diarrhea Ertugliflozin: . . Ingestion : Symptoms: The most common side effects are:, Headache, constipation, Diarrhea, Nausea, urinary tract infection, musc pain, upper respiratory tract infection CTION 12. ECOLOGICAL INFORMATION Ecotoxicity . Components: . Sitagliptin: Toxicity to fish	Magn	nesium stearate:			
Application Route : Ingestion Exposure time : 90 Days Remarks : Based on data from similar materials Propyl 3,4,5-trihydroxybenzoate: Species : Species : Rat NOAEL : 135 mg/kg Application Route : Ingestion Exposure time : 13 Weeks Aspiration toxicity Not classified based on available information. Experience with human exposure Components: Sitagliptin: Inhalation : Inhalation : Symptoms: upper respiratory tract infection, pharyngitis, Headache Ingestion : Symptoms: upper respiratory tract infection, nasopharyngitis Headache, Nausea, Abdominal pain, Diarrhea Ertugliflozin: Ingestion : Ingestion : Symptoms: The most common side effects are:, Headache, constipation, Diarrhea, Nausea, urinary tract infection, musc pain, upper respiratory tract infection CTION 12. ECOLOGICAL INFORMATION Ecotoxicity Components: : Sitagliptin: Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): > 100 mg/l Exposure time: 96 h Method: OECD Tes			:		
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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, Diarrhea Ertugliflozin: : Ingestion : Symptoms: The most common side effects are:, Headache, constipation, Diarrhea, Nausea, urinary tract infection, musc pain, upper respiratory tract infection CTION 12. ECOLOGICAL INFORMATION Ecotoxicity 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	Aspir	ration toxicity			
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Sitagliptin: Inhalation : Symptoms: upper respiratory tract infection, pharyngitis, Headache Ingestion : Symptoms: upper respiratory tract infection, nasopharyngitis Headache, Nausea, Abdominal pain, Diarrhea Ertugliflozin: Ingestion Ingestion : Symptoms: The most common side effects are:, Headache, constipation, Diarrhea, Nausea, urinary tract infection, musc pain, upper respiratory tract infection CTION 12. ECOLOGICAL INFORMATION Ecotoxicity 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	Expe	rience with human e	xposı	ire	
Inhalation : Symptoms: upper respiratory tract infection, pharyngitis, Headache Ingestion : Symptoms: upper respiratory tract infection, nasopharyngitis Headache, Nausea, Abdominal pain, Diarrhea Ertugliflozin: Ingestion Ingestion : Symptoms: The most common side effects are:, Headache, constipation, Diarrhea, Nausea, urinary tract infection, musc pain, upper respiratory tract infection CTION 12. ECOLOGICAL INFORMATION Ecotoxicity 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	<u>Com</u>	ponents:			
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Ingestion : Symptoms: upper respiratory tract infection, nasopharyngitis Headache, Nausea, Abdominal pain, Diarrhea Ertugliflozin:	Inhala	ation	:		per respiratory tract infection, pharyngitis,
Headache, Nausea, Abdominal pain, Diarrhea Ertugliflozin: Ingestion : Symptoms: The most common side effects are:, Headache, constipation, Diarrhea, Nausea, urinary tract infection, musc pain, upper respiratory tract infection CTION 12. ECOLOGICAL INFORMATION Ecotoxicity 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	Ingoo	tion			nor reasizatory treat infaction, personary maiting
Ingestion : Symptoms: The most common side effects are:, Headache, constipation, Diarrhea, Nausea, urinary tract infection, musc pain, upper respiratory tract infection CTION 12. ECOLOGICAL INFORMATION Ecotoxicity 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	inges	uon	•		
constipation, Diarrhea, Nausea, urinary tract infection, musc pain, upper respiratory tract infection CTION 12. ECOLOGICAL INFORMATION Ecotoxicity 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	Ertug	ıliflozin:			
EcotoxicityComponents:Sitagliptin: Toxicity to fish::LC50 (Pimephales promelas (fathead minnow)): > 100 mg/l Exposure time: 96 h Method: OECD Test Guideline 203Toxicity to daphnia and other aquatic invertebrates::EC50 (Daphnia magna (Water flea)): 60 mg/l Exposure time: 48 h Method: OECD Test Guideline 202	Inges	tion	:	constipation, D	iarrhea, Nausea, urinary tract infection, musc
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 : EC50 (Daphnia magna (Water flea)): 60 mg/l Exposure time: 48 h Method: OECD Test Guideline 202	CTION	12. ECOLOGICAL IN	IFORM	IATION	
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	Ecoto	oxicity			
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	Com	ponents:			
 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 					
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	-			I C50 (Pimenh	ales promelas (fathead minnow)): > 100 mg/l
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	10/10		•		
aquatic invertebrates Exposure time: 48 h Method: OECD Test Guideline 202					
aquatic invertebrates Exposure time: 48 h Method: OECD Test Guideline 202	Toxic	ity to daphnia and oth	er :	EC50 (Daphnia	a magna (Water flea)): 60 mɑ/l
Method: OECD Test Guideline 202			-		
Toxicity to algae/aquatic : EC50 (Pseudokirchneriella subcapitata (green algae)): > 39	•				
	Toxic	ity to algae/aquatic	:	EC50 (Pseudo	kirchneriella subcapitata (green algae)): > 39
					//



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I	plants			mg/l Exposure time: 96 Method: OECD Te	
				NOEC (Pseudokir mg/l Exposure time: 96 Method: OECD Te	
	Toxicity icity)	to fish (Chronic tox-	:	NOEC (Pimephale Exposure time: 33 Method: OECD Te	
i		to daphnia and other invertebrates (Chron- ty)	:	NOEC (Daphnia n Exposure time: 21 Method: OECD Te	
-	Toxicity	to microorganisms	:	EC50: > 150 mg/l Exposure time: 3 Test Type: Respir Method: OECD Te	ation inhibition
				NOEC: 150 mg/l Exposure time: 3 Test Type: Respir	
	Cellulo	se:			
	Toxicity	r to fish	:	Exposure time: 48	pes (Japanese medaka)): > 100 mg/l 3 h on data from similar materials
I	Ertuglif	flozin:			
	Toxicity plants	to algae/aquatic	:	EC50 (Pseudokiro Exposure time: 72 Method: OECD Te	
				NOEC (Pseudokir mg/l Exposure time: 72 Method: OECD Te	
	Toxicity icity)	to fish (Chronic tox-	:	Exposure time: 32 Method: OECD Te	
i		to daphnia and other invertebrates (Chron- ty)	:	Exposure time: 21 Method: OECD Te	
	Toxicity	r to microorganisms	:	EC50: > 1.000 mg Exposure time: 3 Test Type: Respir	h



Magnes Toxicity	ium stearate: to fish		Method: OECD Test Guideline 209 NOEC: 1.000 mg/l Exposure time: 3 h Test Type: Respiration inhibition Method: OECD Test Guideline 209
-			Exposure time: 3 h Test Type: Respiration inhibition
-			
Toxicity	to fish		
		•	LC50 (Leuciscus idus (Golden orfe)): > 100 mg/l Exposure time: 48 h Method: DIN 38412 Remarks: Based on data from similar materials
	to daphnia and other invertebrates	:	EL50 (Daphnia magna (Water flea)): > 1 mg/l Exposure time: 47 h Test substance: Water Accommodated Fraction Method: Directive 67/548/EEC, Annex V, C.2. Remarks: Based on data from similar materials No toxicity at the limit of solubility.
Toxicity plants	to algae/aquatic	:	EL50 (Pseudokirchneriella subcapitata (green algae)): > 1 mg/l Exposure time: 72 h Test substance: Water Accommodated Fraction Method: OECD Test Guideline 201 Remarks: Based on data from similar materials No toxicity at the limit of solubility.
			NOELR (Pseudokirchneriella subcapitata (green algae)): > 1 mg/l Exposure time: 72 h Test substance: Water Accommodated Fraction Method: OECD Test Guideline 201 Remarks: Based on data from similar materials
Toxicity	to microorganisms	:	EC10 (Pseudomonas putida): > 100 mg/l Exposure time: 16 h Test substance: Water Accommodated Fraction Remarks: Based on data from similar materials
Propyl 3	3,4,5-trihydroxybenzo	oate	e:
	to daphnia and other invertebrates	:	EC50 (Daphnia magna (Water flea)): 19,06 mg/l Exposure time: 48 h Test substance: Neutralized product Method: OECD Test Guideline 202
Toxicity plants	to algae/aquatic	:	ErC50 (Pseudokirchneriella subcapitata (green algae)): 0,37 mg/l Exposure time: 72 h Test substance: Neutralized product Method: OECD Test Guideline 201
			EC10 (Pseudokirchneriella subcapitata (green algae)): 0,17 mg/l



/ersion 5.1	Revision Date: 30.09.2023		DS Number: 9429-00019	Date of last issue: 06.03.2023 Date of first issue: 04.04.2016		
			Exposure time: 72 Test substance: N Method: OECD Te	Veutralized product		
	M-Factor (Acute aquatic tox- icity) Toxicity to microorganisms		1			
			: EC50: 636 mg/l Exposure time: 3 h Method: OECD Test Guideline 209			
Persi	stence and degradabil	ity				
Components:						
Sitag	liptin:					
Biode	Biodegradability Stability in water		 Result: not rapidly degradable Biodegradation: 39,7 % Exposure time: 28 d Method: OECD Test Guideline 314 			
Stabil			: Hydrolysis: 50 %(401 d) Method: OECD Test Guideline 111			
Cellu	lose:					
Biode	gradability	:	Result: Readily bi	odegradable.		
Ertug	liflozin:					
Biode	gradability	:	Result: Not readily Biodegradation: 4 Exposure time: 28	40,8 %		
Magnesium stearate:						
Biode	gradability	:	Result: Not biode Remarks: Based	gradable on data from similar materials		
Prop	/I 3,4,5-trihydroxybenz	oat	e:			
Biode	gradability	:	Result: Not readily Biodegradation: 4 Exposure time: 28 Method: OECD To	49,4 %		
Bioaccumulative potential						
<u>Comp</u>	oonents:					
	l iptin: on coefficient: n- ol/water	:	log Pow: -0,03			
Ertug	liflozin:					
	on coefficient: n- ol/water	:	log Pow: 2,47			
			19/22			



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l	Magnesium stearate: Partition coefficient: n-	:	log Pow: > 4			
(octanol/water					
I	Propyl 3,4,5-trihydroxybenzoate:					
	Partition coefficient: n- octanol/water		log Pow: 1,8 Remarks: Calcu	lation		
I	Mobility in soil					
(Components:					
:	Sitagliptin:					
	Distribution among environ- mental compartments	· :	log Koc: 4,37			
I	Ertugliflozin:					
	Distribution among environ- mental compartments	· :	log Koc: 2,88			
(Other adverse effects					
I	No data available					

Disposal methods

Waste from residues	: Do not dispose of waste into sewer.
	Dispose of in accordance with local regulations.
Contaminated packaging	: Empty containers should be taken to an approved waste
	handling site for recycling or disposal.
	If not otherwise specified: Dispose of as unused product.

SECTION 14. TRANSPORT INFORMATION

International Regulations

UNRTDG

Not regulated as a dangerous good

IATA-DGR

Not regulated as a dangerous good

IMDG-Code Not regulated as a dangerous good

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

Not applicable for product as supplied.

Special precautions for user

Not applicable

SECTION 15. REGULATORY INFORMATION

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



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	Argentina. Carcinogenic Substances and Agents: Not applicableRegistry.Control of precursors and essential chemicals for the preparation of drugs.: Not applicable					
	The ingredients of this product are reported in the following inventories: AICS : not determined					
	DSL		:	not determined		
	IECSC	2	:	not determined		
SEC		16. OTHER INFORMA		N		
	Revisi Date f	on Date ormat	:	30.09.2023 dd.mm.yyyy		
	Sourc	le the Material Safety	:		l data, data from raw material SDSs, OECD arch results and European Chemicals Agen- iropa.eu/	
	Full te ACGII AR OE		ions : :		reshold Limit Values (TLV) pational Exposure Limits	
		H / TWA EL / CMP	:	8-hour, time-weig TLV (Threshold I		
	AllC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport b 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 wit x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated wit x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized Sys tem; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IAT - International Air Transport Association; IBC - International Code for the Construction an Equipment of Ships carrying Dangerous Chemicals in Bulk; ICSO - Half maximal inhibitory cor centration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chem cal Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Cor centration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Media 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 Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - Ne Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Develop ment; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccum					



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lative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

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

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