

Sitagliptin Formulation

/ersion 2.1	Revision Date: 26.09.2023		S Number: 15-00024	Date of last issue: 07.03.2023 Date of first issue: 30.09.2014
I. PROD	OUCT AND COMPANY IDE	ΞΝΤ	IFICATION	
Proc	duct name	:	Sitagliptin Fo	rmulation
Mar	nufacturer or supplier's d	letai	ls	
Con	npany	:	MSD	
Add	Address		50 Tuas Wes Singapore - S	t Drive Singapore 638408
Tele	ephone	:	+1-908-740-4	000
Eme	Emergency telephone number		65 6697 2111	(24/7/365)
E-m	E-mail address		EHSDATAST	EWARD@msd.com
Rec	commended use of the ch	nem	ical and restri	ctions on use
	commended use strictions on use	:	Pharmaceutic Not applicable	

2. HAZARDS IDENTIFICATION

GHS Classification Serious eye damage/eye irri- tation		Category 2
GHS label elements		
Hazard pictograms	:	
Signal word	:	Warning
Hazard statements	:	H319 Causes serious eye irritation.
Precautionary statements	:	Prevention: P264 Wash skin thoroughly after handling. P280 Wear eye protection/ face protection.
		Response:
		P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 If eye irritation persists: Get medical advice/ at- tention.



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Other hazards which do not result in classification

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

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
Sitagliptin	654671-77-9	>= 30 -< 50
Cellulose	9004-34-6	>= 20 -< 30
Magnesium stearate	557-04-0	>= 1 -< 10
Titanium dioxide	13463-67-7	>= 0.1 -< 1
Propyl 3,4,5-trihydroxybenzoate	121-79-9	>= 0.25 -< 1

4. 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.
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 soap and plenty of water. Remove 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.
Most important symptoms and effects, both acute and delayed	:	Causes serious eye irritation. Contact with dust can cause mechanical irritation or drying of the skin.
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).
Notes to physician	:	Treat symptomatically and supportively.

5. FIREFIGHTING MEASURES

Suitable extinguishing media :

Water spray Alcohol-resistant foam



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Unsu	itable extinguishing	:	Carbon dioxide (0 Dry chemical None known.	02)
media	a		A • I /·	
Spec fightir	ific hazards during fire- ng	:	concentrations, a potential dust exp	dust; fine dust dispersed in air in sufficient nd in the presence of an ignition source is a plosion hazard. Dustion products may be a hazard to health.
Haza ucts	rdous combustion prod-	:	Carbon oxides Metal oxides Oxides of phosph	orus
Spec ods	ific extinguishing meth-	:	cumstances and Use water spray f Remove undama so.	g measures that are appropriate to local cir- the surrounding environment. to cool unopened containers. ged containers from fire area if it is safe to d
	ial protective equipment efighters	:		e, wear self-contained breathing apparatus. tective equipment.
6. ACCID	ENTAL RELEASE MEAS	SUF	RES	
tive e	onal precautions, protec- quipment and emer- y procedures	:	Follow safe hand	tective equipment. ling advice (see section 7) and personal pro- t recommendations (see section 8).
Envir	Environmental precautions		Retain and dispos	akage or spillage if safe to do so. se of contaminated wash water. should be advised if significant spillages
	Methods and materials for containment and cleaning up		tainer for disposa Avoid dispersal o with compressed Dust deposits sho es, as these may leased into the at Local or national	f dust in the air (i.e., clearing dust surfaces

7. HANDLING AND STORAGE

Technical measures	:	Static electricity may accumulate and ignite suspended dust
		causing an explosion.

posal of this material, as well as those materials and items employed in the cleanup of releases. You will need to deter-

Sections 13 and 15 of this SDS provide information regarding

mine which regulations are applicable.

certain local or national requirements.



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		Fotal ventilation		and bonding, or ir Use only with ade Do not get on skin Avoid breathing d Do not swallow. Do not get in eyes Wash skin thorou Handle in accorda practice, based o sessment Minimize dust gen Keep container cl Keep away from I Take precautiona	or clothing. ust.	
		ions for safe storage als to avoid	 Keep in properly labelled containers. Store in accordance with the particular national regulations Do not store with the following product types: Strong oxidizing agents 			

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Sitagliptin	654671-77-9	TWA	0.5 mg/m3 (OEB 2)	Internal
Cellulose	9004-34-6	PEL (long term)	10 mg/m3	SG OEL
		TWA	10 mg/m3	ACGIH
Magnesium stearate	557-04-0	PEL (long term)	10 mg/m3	SG OEL
		TWA (Inhal- able particu- late matter)	10 mg/m3	ACGIH
		TWA (Res- pirable par- ticulate mat- ter)	3 mg/m3	ACGIH
Titanium dioxide	13463-67-7	PEL (long term)	10 mg/m3	SG OEL
		TWA (Res- pirable par- ticulate mat- ter)	2.5 mg/m3 (Titanium dioxide)	ACGIH

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



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	Titanium diox	de					
Engir	neering measures	compound. All enginee design and	e engineering controls to minimize exposure to ring controls should be implemented by facility operated in accordance with GMP principles to ducts, workers, and the environment.				
Perso	onal protective equip	ment					
Respiratory protection Filter type Hand protection		sure assess	local exhaust ventilation is not available or exposed sment demonstrates exposures outside the rec- guidelines, use respiratory protection.				
		: Chemical-re	Chemical-resistant gloves				
Eye p	rotection	: Wear safety glasses with side shields or goggles. If the work environment or activity involves dusty condi mists or aerosols, wear the appropriate goggles. Wear a faceshield or other full face protection if there is potential for direct contact to the face with dusts, mists aerosols.					
	and body protection ne measures	: Work unifor : If exposure eye flushing ing place. When using Contaminat workplace. Wash conta The effectiv engineering appropriate industrial hy	rm or laboratory coat. to chemical is likely during typical use, provide g systems and safety showers close to the work g do not eat, drink or smoke. ted work clothing should not be allowed out of th aminated clothing before re-use. ye operation of a facility should include review o g controls, proper personal protective equipmen e degowning and decontamination procedures, ygiene monitoring, medical surveillance and the inistrative controls.				

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	powder
Colour	:	No data available
Odour	:	No data available
Odour Threshold	:	No data available
рН	:	No data available
Melting point/freezing point	:	No data available
Initial boiling point and boiling range	:	No data available



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Flas	h point	:	Not applicable			
Evap	poration rate	:	Not applicable			
Flam	nmability (solid, gas)	:	May form explos dling or other me	ive dust-air mixture during processing, han- ans.		
Flam	nmability (liquids)	:	No data available	9		
	er explosion limit / Upper mability limit	:	No data available	9		
	Lower explosion limit / Lower flammability limit		No data available	9		
Vapo	our pressure	:	Not applicable			
Rela	tive vapour density	:	Not applicable			
Rela	tive density	:	No data available	9		
Dens	sity	:	No data available	9		
	bility(ies) /ater solubility	:	No data available	9		
	tion coefficient: n- nol/water	:	Not applicable			
	-ignition temperature	:	No data available	9		
Deco	omposition temperature	:	No data available	9		
	Viscosity Viscosity, kinematic		Not applicable			
Expl	Explosive properties		Not explosive			
Oxid	izing properties	:	The substance o	r mixture is not classified as oxidizing.		
Mole	ecular weight	:	No data available	9		
Parti	cle size	:	No data available	9		

10. STABILITY AND REACTIVITY

Reactivity Chemical stability Possibility of hazardous reac- tions	:	Not classified as a reactivity hazard. Stable under normal conditions. May form explosive dust-air mixture during processing, han- dling or other means.
tions		dling or other means.



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			Can react with st	rong oxidizing agents.
Co	nditions to avoid	:	Heat, flames and	sparks.
Ha	compatible materials zardous decomposition oducts	:	Avoid dust forma Oxidizing agents No hazardous de	
11. TO)	KICOLOGICAL INFORMAT	101	N	
	ormation on likely routes of posure	:	Inhalation Skin contact Ingestion Eye contact	
	ute toxicity t classified based on availal	ble	information.	
<u>Co</u>	mponents:			
	agliptin: ute oral toxicity	:	LD50 (Rat): > 3,00	00 mg/kg
			LD50 (Mouse): 3,	000 mg/kg
Ce	llulose:			
Ac	ute oral toxicity	:	LD50 (Rat): > 5,0	00 mg/kg
Ac	ute inhalation toxicity	:	LC50 (Rat): > 5.8 Exposure time: 4 Test atmosphere:	h
Ac	ute dermal toxicity	:	LD50 (Rabbit): > 2	2,000 mg/kg
Ма	ignesium stearate:			
Ac	ute oral toxicity	:	icity	
Ac	ute dermal toxicity	:	LD50 (Rabbit): > 2 Remarks: Based o	2,000 mg/kg on data from similar materials
Tit	anium dioxide:			
Ac	ute oral toxicity	:	LD50 (Rat): > 5,00	00 mg/kg
Ac	ute inhalation toxicity	:	LC50 (Rat): > 6.82 Exposure time: 4 Test atmosphere: Assessment: The	h



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		dia a da si aid s	
		tion toxicity	
Propy	/I 3,4,5-trihydroxybe	enzoate:	
	oral toxicity		male): > 1,000 - 2,000 mg/kg
Acute	dermal toxicity	: LD50 (Rat): > 2,0	000 mg/kg
			est Guideline 402 esubstance or mixture has no acute derma
		toxicity	
Skin d	corrosion/irritation		
Not cl	assified based on av	ailable information.	
<u>Comp</u>	oonents:		
Sitagl	•		
Specie Metho		: Rabbit : Draize Test	
Resul		: No skin irritation	
Magn	esium stearate:		
Speci	es	: Rabbit	
Resul		: No skin irritation	
Rema	rks	: Based on data fr	om similar materials
	um dioxide:		
Specie Resul		: Rabbit : No skin irritation	
Resul	L	. NO SKIT ITTALION	
	/l 3,4,5-trihydroxybe		
Specie Metho		: reconstructed hu : OECD Test Guid	man epidermis (RhE) eline 439
		: No skin irritation	
Resul	L	. NO SKIN IMIALION	
	us eye damage/eye		
	es serious eye irritatio conents:	on.	
Sitag	-	. Dabbit	
Specie Resul		: Rabbit : Irritating to eyes.	
Metho		: Draize Test	
Magn	esium stearate:		
Speci		: Rabbit	
Resul	t	: No eye irritation	



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Rema	rks	: Based on data	from similar materials	
Titani	um dioxide:			
Specie Result		: Rabbit : No eye irritatio	n	
Propy	vl 3,4,5-trihydroxybe	enzoate:		
Specie Result Metho	t	: Rabbit : Irreversible eff : OECD Test Gu	ects on the eye uideline 405	
Respi	ratory or skin sensi	itisation		
-	sensitisation assified based on ava	ailable information		
	ratory sensitisation			
-	assified based on ava			
<u>Comp</u>	onents:			
Sitagl	iptin:			
Test T			ode assay (LLNA)	
Specie Metho		: Mouse : OECD Test Gu	uideline 129	
Result		: Not a skin sen		
Magn	esium stearate:			
Test T		: Maximisation	lest lest	
	sure routes	: Skin contact		
Specie Metho		: Guinea pig	udeline 406	
Result		: negative	ECD Test Guideline 406	
Rema			from similar materials	
Titani	um dioxide:			
Test T			ode assay (LLNA)	
	sure routes	: Skin contact		
Specie Result		: Mouse : negative		
Nesui	L	. negative		
	d 3,4,5-trihydroxybe			
Test T			ode assay (LLNA)	
Expos Specie	sure routes	: Skin contact : Mouse		
Result		: positive		
	sment	: Probability or e	evidence of skin sensitisation in huma	
Asses				



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Not cl	a cell mutagenicity assified based on ava conents:	ailable information.	
Sitaq	liptin:		
	toxicity in vitro	: Test Type: A Result: negat	
			hromosome aberration test in vitro Chinese hamster ovary cells ive
		thesis in man	NA damage and repair, unscheduled DNA syn- nmalian cells (in vitro) rat hepatocytes ive
Geno	toxicity in vivo	: Test Type: M Species: Mou Application R Result: negat	oute: Oral
Cellu	lose:		
Geno	toxicity in vitro	: Test Type: Ba Result: negat	acterial reverse mutation assay (AMES) ive
		Test Type: In Result: negat	vitro mammalian cell gene mutation test ive
Geno	toxicity in vivo	cytogenetic a Species: Mou	use oute: Ingestion
Magn	esium stearate:		
•	toxicity in vitro	Result: negat	vitro mammalian cell gene mutation test ive sed on data from similar materials
		Method: OEC Result: negat	hromosome aberration test in vitro CD Test Guideline 473 ive sed on data from similar materials
		Result: negat	acterial reverse mutation assay (AMES) ive sed on data from similar materials

Titanium dioxide:



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Genot	oxicity in vitro	:	Test Type: Bac Result: negativ	eterial reverse mutation assay (AMES)		
Genot	oxicity in vivo	:	: Test Type: In vivo micronucleus test Species: Mouse Result: negative			
Propy	rl 3,4,5-trihydroxyber	zoat	e:			
Genot	oxicity in vitro	:	Test Type: Bac Result: negativ	cterial reverse mutation assay (AMES) e		
			Test Type: In v Result: positive	itro mammalian cell gene mutation test		
			Test Type: Chr Result: positive	omosome aberration test in vitro		
				A damage and repair, unscheduled DNA syr nalian cells (in vitro) e		
			Test Type: In v malian cells Result: positive	itro sister chromatid exchange assay in man		
Genot	oxicity in vivo	:	cytogenetic as Species: Mous	e ute: Intraperitoneal injection		
Carci	nogenicity					
	assified based on avai	lable	information.			
	oonents:					
Sitag		-	Mouse			
Specie		:	Mouse Oral			
	ation Route sure time	:	2 Years			
Resul		:	negative			
Specie	es	•	Rat			
	ation Route	•	oral (drinking w	vater)		
	sure time	:	2 Years	,		
Resul		:	positive			
	t Organs	:	Liver			
Rema		:		city observed in testing		



rsion	Revision Date: 26.09.2023	SDS Number: 17315-00024	Date of last issue: 07.03.2023 Date of first issue: 30.09.2014				
Cellu	lose:						
Speci	es	: Rat					
	cation Route	: Ingestion					
Expo: Resu	sure time t	: 72 weeks : negative					
Titan	ium dioxide:						
Speci		: Rat					
	cation Route	: inhalation (dus	t/mist/fume)				
Metho	sure time od	: 2 Years : OECD Test Gu	uideline 453				
Resu		: positive					
Rema	arks		m or mode of action may not be relevant in h				
		mans. This substance	e(s) is not bioavailable and therefore does no				
			dust inhalation hazard.				
Carcii ment	nogenicity - Assess-	: Limited eviden animals.	ce of carcinogenicity in inhalation studies wit				
Prop	yl 3,4,5-trihydroxybe	nzoate:					
Speci	es	: Rat					
	cation Route	: Ingestion					
Expo: Resu	sure time It	: 103 weeks : negative	103 weeks negative				
Popr	oductive toxicity						
-	assified based on ava	ilable information.					
<u>Com</u>	oonents:						
-	liptin:						
Effect	s on fertility	: Test Type: Fer Species: Rat	tility/early embryonic development				
		Application Ro	ute: Oral				
		Fertility: NOAE	L Parent: 1,000 mg/kg body weight				
		Result: Animal	testing did not show any effects on fertility.				
	s on foetal develop-		bryo-foetal development				
ment		Species: Rat Application Ro	ute: Oral				
		Teratogenicity Result: Embry	ELOAEL: 250 mg/kg body weight botoxic effects and adverse effects on the off- tected., No teratogenic effects				
			has a fractal data data and				
		Test Type: Em Species: Rabb	bryo-foetal development				



rsion	Revision Date: 26.09.2023	SDS Numbe 17315-00024	
Cellul	ose:		
Effects	s on fertility	Species:	on Route: Ingestion
Effects ment	s on foetal develop-	Species:	on Route: Ingestion
Magn	esium stearate:		
-	s on fertility	reproduc Species: Applicati Method: Result: n	on Route: Ingestion OECD Test Guideline 422
Effects ment	s on foetal develop-	Species: Applicati Result: n	on Route: Ingestion
Propv	l 3,4,5-trihydroxyber	zoate:	
	s on fertility	: Test Typ Species:	on Route: Ingestion
Effects ment	s on foetal develop-	Species:	on Route: Ingestion
	- single exposure assified based on avai	lable informatio	n.
STOT	- repeated exposure assified based on avai		
	ated dose toxicity		
-	onents:		
Sitagl Specie	-	: Mouse	



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NOAE		: 500 mg/kg	
LOAE		: 1,000 mg/kg	
	cation Route sure time	: Oral	
•	et Organs	: > 2 yr : Kidney	
ruige	it organo	. Hudnoy	
Speci		: Rat	
NOAE		: 500 mg/kg	
LOAE		: 1,000 mg/kg	
	cation Route	: Oral	
	sure time et Organs	: 14 Weeks : Liver, Kidney,	Heart Teeth
Targe	a Organs	. Liver, Ridney,	near, reem
Speci		: Dog	
NOAE		: 10 mg/kg	
LOAE		: 50 mg/kg	
	cation Route	: Oral	
	sure time et Organs	: 53 Weeks : Central nervor	is system
Symp		: Loss of balance	
Rema			m or mode of action may not be relevant in hι
		mans.	
Speci	es	: Dog	
NOAE		: 2 mg/kg	
LOAE		: 10 mg/kg	
	cation Route	: Oral	
	sure time	: 27 Weeks	
	et Organs	: Skeletal musc	le, Central nervous system
Symp		: Loss of balance	
Rema	ırks	: The mechanis mans.	m or mode of action may not be relevant in hu
Speci	es	: Monkey	
NOAE		: 100 mg/kg	
Applic	cation Route	: Oral	
	sure time	: 14 Weeks	
Rema	arks	: No significant	adverse effects were reported
Cellu	lose:		
Speci	es	: Rat	
NOAE		: >= 9,000 mg/k	g
	cation Route	: Ingestion	
Expos	sure time	: 90 Days	
Magn	esium stearate:		
Speci		: Rat	
NOAE		: > 100 mg/kg	
	cation Route	: Ingestion	
	sure time	: 90 Days	
Domo	arks	: Based on data	from similar materials



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Spec NOAI Applie	EL cation Route sure time		Rat 24,000 mg/kg Ingestion 28 Days Rat	
NOAI Applie		:	10 mg/m3 inhalation (dust/m 2 yr	ist/fume)
Spec NOAI Applie Expo Aspir	EL cation Route sure time ration toxicity	: : :	Rat 135 mg/kg Ingestion 13 Weeks	
	lassified based on availa rience with human exp			
	ponents:			
Inhala		:	Headache	respiratory tract infection, pharyngitis,
Inges	tion	:		respiratory tract infection, nasopharyngitis, ea, Abdominal pain, Diarrhoea
2. ECOL	OGICAL INFORMATIO	N		
Ecote	oxicity			
<u>Com</u>	ponents:			
-	liptin: ity to fish	:	LC50 (Pimephale Exposure time: 96 Method: OECD To	
	ity to daphnia and other tic invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: OECD Te	
Toxic plants	ity to algae/aquatic s	:	EC50 (Pseudokiro mg/l Exposure time: 96 Method: OECD To	



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			NOEC (Pseudokir mg/l Exposure time: 96 Method: OECD Te	
Toxici icity)	ity to fish (Chronic tox-	:	NOEC (Pimephale Exposure time: 33 Method: OECD Te	
	ity to daphnia and other ic invertebrates (Chron- icity)	:	NOEC (Daphnia r Exposure time: 21 Method: OECD Te	
Toxici	ity to microorganisms	:	EC50: > 150 mg/l Exposure time: 3 Test Type: Respir Method: OECD Te	h ration inhibition
			NOEC: 150 mg/l Exposure time: 3 Test Type: Respir	
Cellu Toxici	lose: ity to fish	:	LC50 (Oryzias lati Exposure time: 48	ipes (Japanese medaka)): > 100 mg/l 3 h
				on data from similar materials
Magn	esium stearate:			
Toxici	ity to fish	:	Exposure time: 48 Method: DIN 384	12
				on data from similar materials
	ity to daphnia and other ic invertebrates	:	Exposure time: 47 Test substance: V Method: Directive	Vater Accommodated Fraction 67/548/EEC, Annex V, C.2. on data from similar materials
Toxici plants	ity to algae/aquatic	:	mg/l Exposure time: 72 Test substance: V Method: OECD Te	Vater Accommodated Fraction est Guideline 201 on data from similar materials
			NOELR (Pseudok mg/l Exposure time: 72	tirchneriella subcapitata (green algae)): > 1 2 h



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			Method: OECD To	Vater Accommodated Fraction est Guideline 201 on data from similar materials
Τc	Toxicity to microorganisms		Exposure time: 16 Test substance: V	nas putida): > 100 mg/l 5 h Vater Accommodated Fraction on data from similar materials
Ti	tanium dioxide:			
Тс	exicity to fish	:	LC50 (Oncorhync Exposure time: 96 Method: OECD Te	
	oxicity to daphnia and other juatic invertebrates	:	EC50 (Daphnia m Exposure time: 48	agna (Water flea)): > 100 mg/l 3 h
	oxicity to algae/aquatic ants	: EC50 (Skeletonema costatum (marine diatom)): > 1 Exposure time: 72 h		
Тс	exicity to microorganisms	:	EC50: > 1,000 mg Exposure time: 3 Method: OECD To	h
Pr	opyl 3,4,5-trihydroxybenzo	oat	e:	
Тс	oxicity to daphnia and other juatic invertebrates		EC50 (Daphnia m Exposure time: 48	leutralised product
	oxicity to algae/aquatic ants	:	mg/l Exposure time: 72	leutralised product
			mg/l Exposure time: 72	leutralised product
	Factor (Acute aquatic tox-	:	1	
	ty) xicity to microorganisms	:	EC50: 636 mg/l Exposure time: 3 Method: OECD Te	



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Persis	stence and degrada	bilitv	
	oonents:	,	
Sitagl Biode	l iptin: gradability	Biodegr Exposu	not rapidly degradable adation: 39.7 % re time: 28 d OECD Test Guideline 314
Stabili	ity in water		sis: 50 %(401 d) OECD Test Guideline 111
Cellul	lose:		
Biode	gradability	: Result:	Readily biodegradable.
Magn	esium stearate:		
Biode	gradability		Not biodegradable s: Based on data from similar materials
Propy	/l 3,4,5-trihydroxybe	nzoate:	
Biode	gradability	Biodegr Exposu	Not readily biodegradable. adation: 49.4 % re time: 28 d OECD Test Guideline 301F
Bioac	cumulative potentia	al	
<u>Comp</u>	oonents:		
Sitagl	liptin:		
	on coefficient: n- ol/water	: log Pow	: -0.03
-	esium stearate:		
	on coefficient: n- ol/water	: log Pow	: > 4
Propy	/l 3,4,5-trihydroxybe	nzoate:	
	on coefficient: n- ol/water	: log Pow Remark	: 1.8 s: Calculation
Mobil	ity in soil		
<u>Comp</u>	oonents:		
	l iptin: pution among environ al compartments	- : log Koc:	4.37



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	r adverse effects ata available				
3. DISPO	SAL CONSIDERATION	ONS			
Disp	osal methods				
Wast	e from residues		e of waste into sewer. accordance with local regulations.		
Conta	aminated packaging	: Empty contain dling site for re	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.		
14. TRAN	SPORT INFORMATIC	DN			
Inter	national Regulations				
UNR	-				
	umber er shipping name	: Not applicable : Not applicable			
Class		: Not applicable			
Subs	idiary risk	: Not applicable			
	ing group		: Not applicable		
Labe	IS	: Not applicable			
	-DGR				
UN/IE	-	: Not applicable			
Prope	er shipping name	: Not applicable : Not applicable			
	idiary risk	: Not applicable			
Pack	ing group	: Not applicable			
Labe	ls	: Not applicable			

Packing instruction (cargo aircraft) Packing instruction (passen- ger aircraft)	:	Not applicable Not applicable
		Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable

Not applicable 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

Marine pollutant



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15. REGULATORY INFORMATION

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

Workplace Safety and Health Act and Workplace Safety and Health (General Provisions) Regulations: This product is subjected to the SDS, labelling, PEL and other requirements in the Act/Regulations.

Environmental Protection and Management Act and Environmental Protection and Management (Hazard- ous Substances) Regulations	:	Not applicable
Fire Safety (Petroleum and Flammable Materials) Regulations	:	Not applicable

The components of this p	product are reported in th	e following inventories:
		J

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

16. OTHER INFORMATION

Revision Date	:	26.09.2023			
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/			
Date format	:	dd.mm.yyyy			
Full text of other abbreviatio	Full text of other abbreviations				
ACGIH SG OEL	:	USA. ACGIH Threshold Limit Values (TLV) Singapore. Workplace Safety and Health (General Provisions) Regulations - First Schedule Permissible Exposure Limits of Toxic Substances.			
ACGIH / TWA SG OEL / PEL (long term)	:	8-hour, time-weighted average Permissible Exposure Level (PEL) Long Term			

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized Sys-



Sitagliptin Formulation

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

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.

SG / EN