

# Sitagliptin Formulation

Version 5.1	Revision Date: 26.09.2023		S Number: 282-00024	Date of last issue: 07.03.2023 Date of first issue: 30.09.2014
	I 1: IDENTIFICATION uct name	:	Sitagliptin Formu	llation
Man	ufacturer or supplier's c	leta	ils	
Com	pany	:	MSD	
Addr	ess	:		el 1/26 Talavera Rd NSW, Australia 2113
Telep	ohone	:	1 800 033 461	
Eme	rgency telephone number	:	Poisons Informat	tion Centre: Phone 13 11 26
E-ma	ail address	:	EHSDATASTEW	/ARD@msd.com
Reco	ommended use of the cl	nem	ical and restriction	ons on use
	ommended use rictions on use	:	Pharmaceutical Not applicable	
SECTION	2. HAZARDS IDENTIFI	САТ	ION	
	Classification ous eye damage/eye irri- n	:	Category 2A	
GHS	label elements			
Haza	ard pictograms	:		
			•	

Hazard statements : H319 Causes serious eye irritation.

Signal word

Precautionary statements

Prevention:

: Warning

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/ attention.



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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.

#### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

#### Components

Chemical name	CAS-No.	Concentration (% w/w)
Sitagliptin	654671-77-9	>= 30 -< 60
Cellulose	9004-34-6	>= 10 -< 30
Magnesium stearate	557-04-0	< 10
Titanium dioxide	13463-67-7	< 1
Propyl 3,4,5-trihydroxybenzoate	121-79-9	< 1

#### **SECTION 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 eye contact	:	
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.

#### **SECTION 5. FIREFIGHTING MEASURES**

: Water spray Alcohol-resistant foam Carbon dioxide (CO2)



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	Unsuita media	ble extinguishing	:	Dry chemical None known.	
Ś		c hazards during fire-	:	concentrations, and 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.
	Hazard ucts	ous combustion prod-	:	Carbon oxides Metal oxides Oxides of phosph	orus
	Specific ods	c extinguishing meth-	:	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
	Special for firef	protective equipment ighters	:	In the event of fire	e, wear self-contained breathing apparatus. rective equipment.
SECT	TION 6	. ACCIDENTAL RELE	ASI	E MEASURES	
t	tive equ	al precautions, protec- uipment and emer- procedures	:	Follow safe handl	ective equipment. ing advice (see section 7) and personal pro- recommendations (see section 8).
E	Enviror	nmental precautions	:	Retain and dispos	akage or spillage if safe to do so. se of contaminated wash water. should be advised if significant spillages
		ls and materials for ment and cleaning up	:	tainer for disposal	uum up spillage and collect in suitable con- l. dust in the air (i.e., clearing dust surfaces

#### SECTION 7. HANDLING AND STORAGE

Technical measures	:	Static electricity may accumulate and ignite suspended dust
		causing an explosion.
		Provide adequate precautions, such as electrical grounding

mine which regulations are applicable.

certain local or national requirements.

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 employed in the cleanup of releases. You will need to deter-

Sections 13 and 15 of this SDS provide information regarding



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	I/Total ventilation be on safe handling	: Use only with : Do not get or Avoid breath Do not swallo Do not get in Wash skin th Handle in aco	ow. eyes. oroughly after handling. cordance with good industrial hygiene and safety
Hygie	ene measures	sessment Minimize dus Keep contain Keep away fr Take precaut Take care to environment. If exposure to flushing syste place. When using o	ed on the results of the workplace exposure as- it generation and accumulation. her closed when not in use. from heat and sources of ignition. tionary measures against static discharges. prevent spills, waste and minimize release to the o chemical is likely during typical use, provide eye ems and safety showers close to the working do not eat, drink or smoke. d work clothing should not be allowed out of the
	litions for safe storage rials to avoid	workplace. Wash contan The effective engineering of appropriate of industrial hyg use of admin : Keep in prop Store in acco	ninated clothing before re-use. operation of a facility should include review of controls, proper personal protective equipment, legowning and decontamination procedures, giene monitoring, medical surveillance and the istrative controls. erly labelled containers. ordance with the particular national regulations. with the following product types:

#### SECTION 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	TWA	10 mg/m3	AU OEL
		TWA	10 mg/m3	ACGIH
Magnesium stearate	557-04-0	TWA	10 mg/m3	AU OEL
		TWA (Inhal- able particu- late matter)	10 mg/m3	ACGIH
		TWA (Res- pirable par- ticulate mat-	3 mg/m3	ACGIH



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		ter)		
Titanium dioxide	13463-67-7	TWA	10 mg/m3	AU OEL
		TWA	10 mg/m3	AU 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.

Titanium dioxide

Engineering measures	:	Use feasible engineering controls to minimize exposure to compound. All engineering controls should be implemented by facility design and operated in accordance with GMP principles to protect products, workers, and the environment.
Personal protective equipme	ent	
Respiratory protection	:	If adequate local exhaust ventilation is not available or expo- sure assessment demonstrates exposures outside the rec- ommended guidelines, use respiratory protection.
Filter type Hand protection	·	Particulates type
Material	:	Chemical-resistant gloves
Eye 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.
Skin and body protection	:	Work uniform or laboratory coat.

#### SECTION 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
Flash point	:	Not applicable



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Evap	oration rate	:	Not applicable	
Flam	mability (solid, gas)	:	May form explos dling or other me	ive dust-air mixture during processing, han eans.
Flam	mability (liquids)	:	No data available	e
	r explosion limit / Upper nability limit	:	No data availabl	e
	r explosion limit / Lower nability limit	:	No data available	e
Vapo	ur pressure	:	Not applicable	
Relat	ive vapour density	:	Not applicable	
Relat	ive density	:	No data available	e
Dens	ity	:	No data available	e
	bility(ies) ater solubility	:	No data availabl	e
	ion coefficient: n- ol/water	:	Not applicable	
	ignition temperature	:	No data available	e
Deco	mposition temperature	:	No data available	e
Visco Vi	sity scosity, kinematic	:	Not applicable	
Explo	osive properties	:	Not explosive	
Oxidi	zing properties	:	The substance of	or mixture is not classified as oxidizing.
Moleo	cular weight	:	No data available	e
Partic	cle size	:	No data available	e

### SECTION 10. STABILITY AND REACTIVITY

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



/ersion 5.1	Revision Date: 26.09.2023	SDS Nu 17282-0		Date of last issue: 07.03.2023 Date of first issue: 30.09.2014
Incom	itions to avoid npatible materials rdous decomposition cts	Avo : Oxi	id dust for dizing age	
SECTION	11. TOXICOLOGICA			
Expos	sure routes	Skin Inge	lation contact stion contact	
	e toxicity	ilahla infam		
	assified based on ava	liable inform	hation.	
	<u>oonents:</u>			
-	liptin: oral toxicity	: LD5	0 (Rat): >	3,000 mg/kg
	,		. ,	: 3,000 mg/kg
Cellu	lose:			
	oral toxicity	: LD5	0 (Rat): >	5,000 mg/kg
Acute	inhalation toxicity	Expo	0 (Rat): > osure time atmosphe	
Acute	dermal toxicity	: LD5	0 (Rabbit):	: > 2,000 mg/kg
Magn	esium stearate:			
-	oral toxicity	Meth Asse icity	nod: OECE essment: T	2,000 mg/kg D Test Guideline 423 The substance or mixture has no acute oral tox ed on data from similar materials
Acute	dermal toxicity			: > 2,000 mg/kg ed on data from similar materials
Titani	ium dioxide:			
	oral toxicity	: LD5	0 (Rat): >	5,000 mg/kg
Acute	inhalation toxicity	Expo Test Asse		



sion	Revision Date: 26.09.2023	SDS Number: 17282-00024	Date of last issue: 07.03.2023 Date of first issue: 30.09.2014
Pron	yl 3,4,5-trihydroxybe	enzoate.	
	oral toxicity		female): > 1,000 - 2,000 mg/kg
Acute	oral toxicity	. LD30 (MOUSE	Ternale). > 1,000 - 2,000 mg/kg
Acute	dermal toxicity		2,000 mg/kg D Test Guideline 402 The substance or mixture has no acute derm
	corrosion/irritation		
Not cl	assified based on av	ailable information.	
Comp	oonents:		
Sitaq	liptin:		
Speci	-	: Rabbit	
Metho		: Draize Test	
Resul	t	: No skin irritati	on
Magn	esium stearate:		
Speci		: Rabbit	
Resul		: No skin irritati	
Rema	irks	: Based on data	a from similar materials
	ium dioxide:		
Speci		: Rabbit	
Resul	t	: No skin irritati	on
Propy	yl 3,4,5-trihydroxybe	enzoate:	
Speci			human epidermis (RhE)
Metho	bd	: OECD Test G	uideline 439
Resul	t	: No skin irritati	on
Serio	us eye damage/eye	irritation	
	es serious eye irritatio		
<u>Comp</u>	oonents:		
Sitag	liptin:		
Speci	•	: Rabbit	
Resul	t	: Irritating to ey	es.
Metho	bd	: Draize Test	
Magn	esium stearate:		
Speci	es	: Rabbit	
Resul	t	: No eye irritatio	
	arks	Description determination	a from similar materials



ersion 1	Revision Date: 26.09.2023	SDS Number: 17282-00024	Date of last issue: 07.03.2023 Date of first issue: 30.09.2014
Titani	ium dioxide:		
Speci	es	: Rabbit	
Resul		: No eye irritatio	on
Propy	yl 3,4,5-trihydroxybe	enzoate:	
Speci		: Rabbit	
Resul			fects on the eye
Metho	bd	: OECD Test G	uideline 405
Resp	iratory or skin sensi	tisation	
	sensitisation		
Not cl	assified based on ava	ailable information.	
Resp	iratory sensitisation	1	
-	assified based on ava		
<u>Comp</u>	oonents:		
Sitag	liptin:		
Test 7	Гуре	: Local lymph n	ode assay (LLNA)
Speci	es	: Mouse	
Metho		: OECD Test G	
Resul	t	: Not a skin ser	nsitizer.
Magn	esium stearate:		
Test 7		: Maximisation	Test
	sure routes	: Skin contact	
Speci		: Guinea pig	
Metho		: OECD Test G	uideline 406
Resul		: negative	- for an alter the man device to
Rema	Irks	: Based on data	a from similar materials
Titani	ium dioxide:		
Test			ode assay (LLNA)
	sure routes	: Skin contact	
Speci		: Mouse	
Resul	t	: negative	
Propy	yl 3,4,5-trihydroxybe	enzoate:	
Test 7			ode assay (LLNA)
	sure routes	: Skin contact	
Speci		: Mouse	
Resul	t	: positive	
Asses	ssment	: Probability or	evidence of skin sensitisation in hum
		9/2	1



ersion .1	Revision Date: 26.09.2023		Number: 32-00024	Date of last issue: 07.03.2023 Date of first issue: 30.09.2014
Chro	nic toxicity			
	-			
	cell mutagenicity assified based on av	ailabla in	formation	
_	oonents:		ionnation.	
	liptin:			
-	toxicity in vitro		Fest Type: Ar	nes test
Cono			Result: negat	
		-	Fest Type: Cl	nromosome aberration test in vitro
		-	Fest system:	Chinese hamster ovary cells
		I	Result: negat	ive
				NA damage and repair, unscheduled DNA sy
				nmalian cells (in vitro) rat hepatocytes
			Result: negat	
Geno	toxicity in vivo	: -	Fest Type: M	icronucleus test
	,		Species: Mou	ISE
			Application R Result: negat	
Cellu	lose:			
Geno	toxicity in vitro		Fest Type: Ba Result: negat	acterial reverse mutation assay (AMES)
			-	
			Fest Type: In Result: negat	vitro mammalian cell gene mutation test
			-	
Geno	toxicity in vivo		Fest Type: Ma cytogenetic a	ammalian erythrocyte micronucleus test (in v
			Species: Mou	ISE
			Application R Result: negat	oute: Ingestion
		I	Nesuli. Negal	
Magn	esium stearate:			
Geno	toxicity in vitro			vitro mammalian cell gene mutation test
			Result: negat Remarks: Ba	ive sed on data from similar materials
				nromosome aberration test in vitro D Test Guideline 473
		I	Result: negat	ive
		F	Remarks: Bas	sed on data from similar materials
				acterial reverse mutation assay (AMES)
			Result: negat Remarks: Ba	
				ive sed on data from similar materials



rsion	Revision Date: 26.09.2023	SDS Number: 17282-00024	Date of last issue: 07.03.2023 Date of first issue: 30.09.2014
Titan	ium dioxide:		
	toxicity in vitro	: Test Type: E Result: nega	Bacterial reverse mutation assay (AMES) ative
Geno	toxicity in vivo	: Test Type: I Species: Mo Result: nega	
Propy	/I 3,4,5-trihydroxybe	enzoate:	
Geno	toxicity in vitro	: Test Type: E Result: nega	Bacterial reverse mutation assay (AMES) ative
		Test Type: I Result: posi	n vitro mammalian cell gene mutation test tive
		Test Type: 0 Result: posi	Chromosome aberration test in vitro tive
			DNA damage and repair, unscheduled DNA syn mmalian cells (in vitro) ative
		Test Type: I malian cells Result: posi	n vitro sister chromatid exchange assay in man
Geno	toxicity in vivo	cytogenetic Species: Mo	ouse Route: Intraperitoneal injection
	nogenicity		
	assified based on av <b>ponents:</b>	allable information.	
	liptin:		
Speci		: Mouse	
Applic	ation Route	: Oral	
	sure time	: 2 Years	
Resul	ι	: negative	
Speci		: Rat	
	ation Route	: oral (drinking	g water)
Expos Resul	sure time	: 2 Years	
	t t Organs	: positive : Liver	



Carcinogenicity - Assessment       Weight of evidence does not support classification as a carcinogen         Cellulose:       Species       : Rat         Application Route       : Ingestion         Exposure time       : 72 weeks         Result       : negative         Titanium dioxide:       :         Species       : Rat         Application Route       : inhalation (dust/mist/fume)         Exposure time       : 2 Years         Method       : OECD Test Guideline 453         Result       : positive         Remarks       : The mechanism or mode of action may not be relevant in Imans.         This substance(s) is not bioavailable and therefore does not contribute to a dust inhalation hazard.         Carcinogenicity - Assess-       : Limited evidence of carcinogenicity in inhalation studies w animals.         Propyl 3,4,5-trihydroxybenzoate:       Species         Species       : Rat         Application Route       : Ingestion         Exposure time       : 103 weeks         Result       : negative         Result       : negative         Result       : Test Type: Fertility/early embryonic development         Species: Rat       Application Route: Oral         Fertility: NOAEL Parent: 1.000 mg/kg body weight       Result: An	ersion .1	Revision Date: 26.09.2023	SDS Numb 17282-000	
ment       cinogen         Cellulose:       Species         Species       :         Result       :         Result       :         Titanium dioxide:       :         Species       :         Result       :         Application Route       :         inhalation (dust/mist/fume)         Exposure time       :         2 Years         Method       :         OECD Test Guideline 453         Result       :         result       :         Remarks       :         The mechanism or mode of action may not be relevant in 1         mans.       This substance(s) is not bioavailable and therefore does n         contribute to a dust inhalation hazard.         Carcinogenicity - Assess-       :         Limited evidence of carcinogenicity in inhalation studies w         animals.         Propyl 3,4,5-trihydroxybenzoate:         Species       :         Species       :         Result       :         nogative         Result       :         Not classified based on available information.         Components:         Sitagliptin:				
Species       :       Rat         Application Route       :       Ingestion         Exposure time       :       72 weeks         Result       :       megative         Titanium dioxide:       :       Species         Species       :       Rat         Application Route       :       inhalation (dust/mist/fume)         Exposure time       :       2 Years         Method       :       OECD Test Guideline 453         Result       :       positive         Remarks       :       The mechanism or mode of action may not be relevant in I mans.         This substance(s) is not bioavailable and therefore does n contribute to a dust inhalation hazard.         Carcinogenicity - Assess-       :       Limited evidence of carcinogenicity in inhalation studies w animals.         Propyl 3,4,5-trihydroxybenzoate:       Species       :       Rat         Species       :       Rat       Application Route       :       Ingestion         Exposure time       :       103 weeks       Result       :       negative         Reproductive toxicity       Not classified based on available information.       Components:       Sitagliptin:         Effects on fortility       :       Test Type: Fertility/early embryon		nogenicity - Assess-	-	
Application Route       :       Ingestion         Exposure time       :       72 weeks         Result       :       negative         Titanium dioxide:       :       Species       :         Species       :       inhalation (dust/mist/fume)         Exposure time       :       2 Years         Method       :       DCCD Test Guideline 453         Result       :       positive         Remarks       :       The mechanism or mode of action may not be relevant in 1 mans.         This substance(s) is not bioavailable and therefore does n contribute to a dust inhalation hazard.       Carcinogenicity - Assess-         Carcinogenicity - Assess-       :       Limited evidence of carcinogenicity in inhalation studies w animals.         Propyl 3,4,5-trihydroxybenzoate:       Species       :       Rat         Species       :       Rat         Application Route       :       Ingestion         Exposure time       :       103 weeks         Result       :       negative         Reproductive toxicity       Not classified based on available information.         Components:       Sitagliptin:         Effects on foretal develop-       :       Test Type: Fertility/early embryonic development Species: Rat Application Rout	Cellu	lose:		
Exposure time : 72 weeks Result : negative Titanium dioxide: Species : Rat Application Route : inhalation (dust/mist/fume) Exposure time : 2 Years Method : OECD Test Guideline 453 Result : positive Remarks : The mechanism or mode of action may not be relevant in 1 mans. This substance(s) is not bioavailable and therefore does n contribute to a dust inhalation hazard. Carcinogenicity - Assess- ment : Ingestion Exposure time : Rat Application Route : Ingestion Exposure time : 103 weeks Result : negative Reproductive toxicity Not classified based on available information. <u>Components:</u> Sitagliptin: Effects on fertility : Test Type: Fertility/early embryonic development Species: Rat Application Route : Oral Fertility: NOAEL Parent: 1,000 mg/kg body weight Result : Animal testing did not show any effects on fertility. Effects on foetal develop- ment : Test Type: Embryo-foetal development Species: Rat Application Route: Oral Fertility: LOAEL: 250 mg/kg body weight Result: Animal testing did not show any effects on the off species: Rat Application Route: Oral Fertility: LOAEL: 250 mg/kg body weight Result: Embryotoxice effects an daverse effects on the off spring were detected., No teratogenic effects Test Type: Embryo-foetal development	Speci	es	: Rat	
Result       : negative         Titanium dioxide:       :         Species       : Rat         Application Route       : inhalation (dust/mist/fume)         Exposure time       : 2 Years         Method       : OECD Test Guideline 453         Result       :: positive         Remarks       : The mechanism or mode of action may not be relevant in I mans.         This substance(s) is not bioavailable and therefore does n contribute to a dust inhalation hazard.         Carcinogenicity - Assess-       : Limited evidence of carcinogenicity in inhalation studies w animals.         Propyl 3,4,5-trihydroxybenzoate:       :         Species       : Rat         Application Route       : Ingestion         Exposure time       : 103 weeks         Result       : negative				
Titanium dioxide:         Species       :       Rat         Application Route       :       inhalation (dust/mist/fume)         Exposure time       :       2 Years         Method       :       OECD Test Guideline 453         Result       :       positive         Remarks       :       The mechanism or mode of action may not be relevant in mans. This substance(s) is not bioavailable and therefore does n contribute to a dust inhalation hazard.         Carcinogenicity - Assess- ment       :       Limited evidence of carcinogenicity in inhalation studies w animals.         Propyl 3,4,5-trihydroxybenzoate:       :       Species       :         Species       :       Rat         Application Route       :       Ingestion         Exposure time       :       103 weeks         Result       :       negative         Reproductive toxicity       Not classified based on available information.         Components:       :       :         Sitagliptin:       :       :         Effects on fortility       :       Test Type: Fertility/early embryonic development Species: Rat Application Route: Oral Fertility: NOAEL Parent: 1,000 mg/kg body weight Result: Animal testing did not show any effects on fertility.         Effects on foetal develop- ment       : <td></td> <td></td> <td></td> <td>-</td>				-
Species       : Rat         Application Route       : inhalation (dust/mist/fume)         Exposure time       : 2 Years         Method       : OECD Test Guideline 453         Result       : positive         Remarks       : The mechanism or mode of action may not be relevant in mans. This substance(s) is not bioavailable and therefore does n contribute to a dust inhalation hazard.         Carcinogenicity - Assess-       : Limited evidence of carcinogenicity in inhalation studies w animals.         Propyl 3,4,5-trihydroxybenzoate:       : Species         Species       : Rat         Application Route       : Ingestion         Exposure time       : 103 weeks         Result       : negative         Reproductive toxicity       Not classified based on available information.         Components:       :         Sitagliptin:       :         Elfects on fertility       : Test Type: Fertility/early embryonic development Species: Rat Application Route: Oral Fertility: NOAEL Parent: 1,000 mg/kg body weight Result: Animal testing did not show any effects on fertility.         Effects on foetal develop- ment       : Test Type: Embryo-foetal development Species: Rat Application Route: Oral Teratogenicity: LOAEL: 250 mg/kg body weight Result: Embryotocic effects and adverse effects on the off spring were detected., No teratogenic effects tritye: Embryo-foetal development   <	Resul	lt	: negativ	e
Application Route       : inhalation (dust/mist/fume)         Exposure time       : 2 Years         Method       : OECD Test Guideline 453         Result       : positive         Remarks       : The mechanism or mode of action may not be relevant in mans. This substance(s) is not bioavailable and therefore does n contribute to a dust inhalation hazard.         Carcinogenicity - Assess- ment       : Limited evidence of carcinogenicity in inhalation studies w animals.         Propyl 3,4,5-trihydroxybenzoate:       : Species         Species       : Rat         Application Route       : Ingestion         Exposure time       : 103 weeks         Result       : negative         Reproductive toxicity       Not classified based on available information.         Components:       :         Sitagliptin:       :         Effects on fertility       : Test Type: Fertility/early embryonic development Species: Rat Application Route: Oral Fertility: NOAEL Parent: 1,000 mg/kg body weight Result: Animal testing did not show any effects on fertility.         Effects on foetal develop- ment       : Test Type: Embryo-foetal development Species: Rat Application Route: Oral Teratogenicity: LOAEL: 250 mg/kg body weight Result: Embryotoxic effects and adverse effects on the off spring were detected., No teratogenic effects	Titan	ium dioxide:		
Exposure time       : 2 Years         Method       : OECD Test Guideline 453         Result       : positive         Remarks       : The mechanism or mode of action may not be relevant in mans. This substance(s) is not bioavailable and therefore does n contribute to a dust inhalation hazard.         Carcinogenicity - Assess- ment       : Limited evidence of carcinogenicity in inhalation studies w animals.         Propyl 3,4,5-trihydroxybenzoate:       Species         Species       : Rat         Application Route       : Ingestion         Exposure time       : 103 weeks         Result       : negative         Reproductive toxicity       Not classified based on available information.         Components:       Sitagliptin:         Effects on fertility       : Test Type: Fertility/early embryonic development Species: Rat Application Route: Oral Fertility: NOAEL Parent: 1,000 mg/kg body weight Result: Animal testing did not show any effects on fertility.         Effects on foetal development       : Test Type: Embryo-foetal development Species: Rat Application Route: Oral Test Type: Embryo-foetal development Species: Rat Application Route: Oral Test Type: Embryo-foetal development Species: Rat Application Route: Oral Test Type: Embryo-foetal development Species: Rat Application Route: Oral Test Type: Embryo-foetal development Species: Rat Application Route: Oral Test Type: Embryo-foetal development Species: Rat Application Route: Oral Test Type: Embryo-foetal development Species: Rat Application Route: Oral Test Type: Embryo-foeta	Speci	es	: Rat	
Method       :       OECD Test Guideline 453         Result       :       positive         Remarks       :       The mechanism or mode of action may not be relevant in mans. This substance(s) is not bioavailable and therefore does n contribute to a dust inhalation hazard.         Carcinogenicity - Assess- ment       :       Limited evidence of carcinogenicity in inhalation studies w animals.         Propyl 3,4,5-trihydroxybenzoate:       :       Species       :         Species       :       Rat         Application Route       :       Ingestion         Exposure time       :       103 weeks         Result       :       negative         Reproductive toxicity       Not classified based on available information.         Components:       :       Sitagliptin:         Effects on fertility       :       Test Type: Fertility/early embryonic development Species: Rat Application Route: Oral Fertility: NOAEL Parent: 1,000 mg/kg body weight Result: Animal testing did not show any effects on fertility.         Effects on foetal develop- ment       :       Test Type: Embryo-foetal development Species: Rat Application Route: Oral Teratogenicity: LOAEL: 250 mg/kg body weight Result: Embryotoxic effects and adverse effects on the off spring were detected., No teratogenic effects         Test Type: Embryo-foetal development       Species: Rat Application Route: Oral Teratogenicity: LOAEL: 250 mg/kg body weight Result: Embryotoxic				
Result       : positive         Remarks       : The mechanism or mode of action may not be relevant in mans. This substance(s) is not bioavailable and therefore does n contribute to a dust inhalation hazard.         Carcinogenicity - Assess- ment       : Limited evidence of carcinogenicity in inhalation studies w animals.         Propyl 3,4,5-trihydroxybenzoate:       : Species       : Rat         Species       : Rat         Application Route       : Ingestion         Exposure time       : 103 weeks         Result       : negative         Reproductive toxicity         Not classified based on available information.         Components:         Sitagliptin:         Effects on fertility       : Test Type: Fertility/early embryonic development Species: Rat Application Route: Oral Fertility: NOAEL Parent: 1,000 mg/kg body weight Result: Animal testing did not show any effects on fertility.         Effects on foetal develop-ment       : Test Type: Embryo-foetal development Species: Rat Application Route: Oral Teratogenicity: LOAEL: 250 mg/kg body weight Result: Embryotoxic effects and adverse effects on the off spring were detected., No teratogenic effects				
Remarks       :       The mechanism or mode of action may not be relevant in mans. This substance(s) is not bioavailable and therefore does n contribute to a dust inhalation hazard.         Carcinogenicity - Assess- ment       :       Limited evidence of carcinogenicity in inhalation studies w animals.         Propyl 3,4,5-trihydroxybenzoate:       Species       :       Rat         Application Route       :       Ingestion       Exposure time       :         Exposure time       :       103 weeks       Result       :       negative         Reproductive toxicity       Not classified based on available information.       Components:       Sitagliptin:         Effects on fertility       :       Test Type: Fertility/early embryonic development Species: Rat Application Route: Oral Fertility: NOAEL Parent: 1,000 mg/kg body weight Result: Animal testing did not show any effects on fertility.         Effects on foetal develop- ment       :       Test Type: Embryo-foetal development Species: Rat Application Route: Oral Teratogenicity: LOAEL: 250 mg/kg body weight Result: Embryotoxic effects and adverse effects on the off spring were detected., No teratogenic effects				
mans. This substance(s) is not bioavailable and therefore does n contribute to a dust inhalation hazard.         Carcinogenicity - Assess- ment       : Limited evidence of carcinogenicity in inhalation studies w animals.         Propyl 3,4,5-trihydroxybenzoate:       : Species         Species       : Rat Application Route         Application Route       : Ingestion Exposure time         Exposure time       : 103 weeks Result         Reproductive toxicity         Not classified based on available information.         Components:         Sitagliptin:         Effects on fertility       : Test Type: Fertility/early embryonic development Species: Rat Application Route: Oral Fertility: NOAEL Parent: 1,000 mg/kg body weight Result: Animal testing did not show any effects on fertility.         Effects on foetal develop- ment       : Test Type: Embryo-foetal development Species: Rat Application Route: Oral Teratogenicity: LOAEL: 250 mg/kg body weight Result: Embryotoxic effects and adverse effects on the off spring were detected., No teratogenic effects		-		
This substance(s) is not bioavailable and therefore does n contribute to a dust inhalation hazard.         Carcinogenicity - Assessment       : Limited evidence of carcinogenicity in inhalation studies w animals.         Propyl 3,4,5-trihydroxybenzoate:       Species       : Rat         Species       : Rat       Application Route       : Ingestion         Exposure time       : 103 weeks       Result       : negative         Reproductive toxicity       Not classified based on available information.       Components:         Sitagliptin:       :       : Test Type: Fertility/early embryonic development Species: Rat Application Route: Oral Fertility: NOAEL Parent: 1,000 mg/kg body weight Result: Animal testing did not show any effects on fertility.         Effects on foetal development       : Test Type: Embryo-foetal development Species: Rat Application Route: Oral Teratogenicity: LOAEL: 250 mg/kg body weight Result: Embryotoxic effects and adverse effects on the off spring were detected., No teratogenic effects	Rema	arks		echanism or mode of action may not be relevant in
contribute to a dust inhalation hazard. Carcinogenicity - Assess- ment : Limited evidence of carcinogenicity in inhalation studies w animals. Propyl 3,4,5-trihydroxybenzoate: Species : Rat Application Route : Ingestion Exposure time : 103 weeks Result : negative Reproductive toxicity Not classified based on available information. Components: Sitagliptin: Effects on fertility : Test Type: Fertility/early embryonic development Species: Rat Application Route: Oral Fertility: NOAEL Parent: 1,000 mg/kg body weight Result: Animal testing did not show any effects on fertility. Effects on foetal develop- ment : Species: Rat Application Route: Oral Fertility: NOAEL Parent: 1,000 mg/kg body weight Result: Animal testing did not show any effects on fertility. Effects on foetal develop- ment : Test Type: Embryo-foetal development Species: Rat Application Route: Oral Teratogenicity: LOAEL: 250 mg/kg body weight Result: Embryotoxic effects and adverse effects on the off spring were detected., No teratogenic effects Test Type: Embryo-foetal development				betanee(a) is not bise vailable and therefore does n
ment       animals.         Propyl 3,4,5-trihydroxybenzoate:       Species         Species       :       Rat         Application Route       :       Ingestion         Exposure time       :       103 weeks         Result       :       negative         Reproductive toxicity       .       Not classified based on available information.         Components:       .       .         Sitagliptin:       .       .         Effects on fertility       :       Test Type: Fertility/early embryonic development Species: Rat Application Route: Oral Fertility: NOAEL Parent: 1,000 mg/kg body weight Result: Animal testing did not show any effects on fertility.         Effects on foetal develop- ment       :       Test Type: Embryo-foetal development Species: Rat Application Route: Oral Teratogenicity: LOAEL: 250 mg/kg body weight Result: Embryotoxic effects and adverse effects on the off spring were detected., No teratogenic effects Test Type: Embryo-foetal development				
Species       :       Rat         Application Route       :       Ingestion         Exposure time       :       103 weeks         Result       :       negative <b>Reproductive toxicity</b> Not classified based on available information. <b>Components: Sitagliptin:</b> Effects on fertility       :       Test Type: Fertility/early embryonic development         Species: Rat       Application Route: Oral       Fertility: NOAEL Parent: 1,000 mg/kg body weight         Result: Animal testing did not show any effects on fertility.       Effects on foetal develop-       :         ment       :       Test Type: Embryo-foetal development         Species: Rat       Application Route: Oral         Teratogenicity: LOAEL: 250 mg/kg body weight       Result: Embryotoxic effects and adverse effects on the off spring were detected., No teratogenic effects         Test Type: Embryo-foetal development       Spring were detected., No teratogenic effects		nogenicity - Assess-		
Species       :       Rat         Application Route       :       Ingestion         Exposure time       :       103 weeks         Result       :       negative <b>Reproductive toxicity</b> Not classified based on available information. <b>Components: Sitagliptin:</b> Effects on fertility       :       Test Type: Fertility/early embryonic development         Species: Rat       Application Route: Oral       Fertility: NOAEL Parent: 1,000 mg/kg body weight         Result: Animal testing did not show any effects on fertility.       Effects on foetal develop-       :         ment       :       Test Type: Embryo-foetal development         Species: Rat       Application Route: Oral         Teratogenicity: LOAEL: 250 mg/kg body weight       Result: Embryotoxic effects and adverse effects on the off         spring were detected., No teratogenic effects       Test Type: Embryo-foetal development	Drom	d 2 4 5 tribydrowybor		
Application Route       :       Ingestion         Exposure time       :       103 weeks         Result       :       negative <b>Reproductive toxicity</b> Not classified based on available information. <b>Components: Sitagliptin:</b> Effects on fertility       :       Test Type: Fertility/early embryonic development Species: Rat Application Route: Oral Fertility: NOAEL Parent: 1,000 mg/kg body weight Result: Animal testing did not show any effects on fertility.         Effects on foetal development       :       Test Type: Embryo-foetal development Species: Rat Application Route: Oral Teratogenicity: LOAEL: 250 mg/kg body weight Result: Embryotoxic effects and adverse effects on the off spring were detected., No teratogenic effects         Test Type: Embryo-foetal development			_	
Exposure time       : 103 weeks         Result       : negative         Reproductive toxicity         Not classified based on available information.         Components:         Sitagliptin:         Effects on fertility         :       Test Type: Fertility/early embryonic development Species: Rat Application Route: Oral Fertility: NOAEL Parent: 1,000 mg/kg body weight Result: Animal testing did not show any effects on fertility.         Effects on foetal develop- ment       :         :       Test Type: Embryo-foetal development Species: Rat Application Route: Oral Teratogenicity: LOAEL: 250 mg/kg body weight Result: Embryotoxic effects and adverse effects on the off spring were detected., No teratogenic effects				
Result       : negative         Reproductive toxicity         Not classified based on available information.         Components:         Sitagliptin:         Effects on fertility         :       Test Type: Fertility/early embryonic development Species: Rat Application Route: Oral Fertility: NOAEL Parent: 1,000 mg/kg body weight Result: Animal testing did not show any effects on fertility.         Effects on foetal develop- ment       :       Test Type: Embryo-foetal development Species: Rat Application Route: Oral Teratogenicity: LOAEL: 250 mg/kg body weight Result: Embryotoxic effects and adverse effects on the off spring were detected., No teratogenic effects         Test Type: Embryo-foetal development				
Not classified based on available information.         Components:         Sitagliptin:         Effects on fertility       : Test Type: Fertility/early embryonic development Species: Rat Application Route: Oral Fertility: NOAEL Parent: 1,000 mg/kg body weight Result: Animal testing did not show any effects on fertility.         Effects on foetal develop- ment       : Test Type: Embryo-foetal development Species: Rat Application Route: Oral Teratogenicity: LOAEL: 250 mg/kg body weight Result: Embryotoxic effects and adverse effects on the off spring were detected., No teratogenic effects         Test Type: Embryo-foetal development				
Not classified based on available information.         Components:         Sitagliptin:         Effects on fertility       : Test Type: Fertility/early embryonic development Species: Rat Application Route: Oral Fertility: NOAEL Parent: 1,000 mg/kg body weight Result: Animal testing did not show any effects on fertility.         Effects on foetal develop- ment       : Test Type: Embryo-foetal development Species: Rat Application Route: Oral Teratogenicity: LOAEL: 250 mg/kg body weight Result: Embryotoxic effects and adverse effects on the off spring were detected., No teratogenic effects         Test Type: Embryo-foetal development	Ronr	oductive toxicity		
Sitagliptin:         Effects on fertility       : Test Type: Fertility/early embryonic development Species: Rat Application Route: Oral Fertility: NOAEL Parent: 1,000 mg/kg body weight Result: Animal testing did not show any effects on fertility.         Effects on foetal develop- ment       : Test Type: Embryo-foetal development Species: Rat Application Route: Oral Teratogenicity: LOAEL: 250 mg/kg body weight Result: Embryotoxic effects and adverse effects on the off spring were detected., No teratogenic effects         Test Type: Embryo-foetal development	-	-	lable informat	ion.
<ul> <li>Effects on fertility</li> <li>Test Type: Fertility/early embryonic development Species: Rat Application Route: Oral Fertility: NOAEL Parent: 1,000 mg/kg body weight Result: Animal testing did not show any effects on fertility.</li> <li>Effects on foetal development</li> <li>Test Type: Embryo-foetal development Species: Rat Application Route: Oral Teratogenicity: LOAEL: 250 mg/kg body weight Result: Embryotoxic effects and adverse effects on the off spring were detected., No teratogenic effects</li> <li>Test Type: Embryo-foetal development</li> </ul>	<u>Com</u>	oonents:		
Species: Rat         Application Route: Oral         Fertility: NOAEL Parent: 1,000 mg/kg body weight         Result: Animal testing did not show any effects on fertility.         Effects on foetal development         ment         Species: Rat         Application Route: Oral         Test Type: Embryo-foetal development         Species: Rat         Application Route: Oral         Teratogenicity: LOAEL: 250 mg/kg body weight         Result: Embryotoxic effects and adverse effects on the off         spring were detected., No teratogenic effects         Test Type: Embryo-foetal development	-			
Application Route: Oral         Fertility: NOAEL Parent: 1,000 mg/kg body weight         Result: Animal testing did not show any effects on fertility.         Effects on foetal development         ment         :       Test Type: Embryo-foetal development         Species: Rat         Application Route: Oral         Teratogenicity: LOAEL: 250 mg/kg body weight         Result: Embryotoxic effects and adverse effects on the off         spring were detected., No teratogenic effects         Test Type: Embryo-foetal development	Effect	s on fertility		
<ul> <li>Fertility: NOAEL Parent: 1,000 mg/kg body weight Result: Animal testing did not show any effects on fertility.</li> <li>Effects on foetal development</li> <li>Test Type: Embryo-foetal development</li> <li>Species: Rat Application Route: Oral Teratogenicity: LOAEL: 250 mg/kg body weight Result: Embryotoxic effects and adverse effects on the off spring were detected., No teratogenic effects</li> <li>Test Type: Embryo-foetal development</li> </ul>				
Effects on foetal development       : Test Type: Embryo-foetal development         Species: Rat       Application Route: Oral         Teratogenicity: LOAEL: 250 mg/kg body weight       Result: Embryotoxic effects and adverse effects on the off         Spring were detected., No teratogenic effects       Test Type: Embryo-foetal development				
Effects on foetal develop- ment : Test Type: Embryo-foetal development Species: Rat Application Route: Oral Teratogenicity: LOAEL: 250 mg/kg body weight Result: Embryotoxic effects and adverse effects on the off spring were detected., No teratogenic effects Test Type: Embryo-foetal development				
ment Species: Rat Application Route: Oral Teratogenicity: LOAEL: 250 mg/kg body weight Result: Embryotoxic effects and adverse effects on the off spring were detected., No teratogenic effects Test Type: Embryo-foetal development			Result:	Animal testing did not snow any effects on fertility.
Application Route: Oral Teratogenicity: LOAEL: 250 mg/kg body weight Result: Embryotoxic effects and adverse effects on the off spring were detected., No teratogenic effects Test Type: Embryo-foetal development	Effect	s on foetal develop-		
Teratogenicity: LOAEL: 250 mg/kg body weight Result: Embryotoxic effects and adverse effects on the off spring were detected., No teratogenic effects Test Type: Embryo-foetal development	ment			
Result: Embryotoxic effects and adverse effects on the off spring were detected., No teratogenic effects Test Type: Embryo-foetal development				
spring were detected., No teratogenic effects Test Type: Embryo-foetal development				
			Test Tv	vpe: Embrvo-foetal development



rsion	Revision Date: 26.09.2023	SDS Ni 17282-0		Date of last issue: 07.03.2023 Date of first issue: 30.09.2014
		Tera	atogenicity:	NOAEL: 125 mg/kg body weight
		Res	ult: No tera	togenic effects
Cellul	ose:			
Effect	s on fertility	Spe App	cies: Rat	e-generation reproduction toxicity study ute: Ingestion e
Effect: ment	s on foetal develop-	Spe App	cies: Rat	tility/early embryonic development ute: Ingestion e
Magn	esium stearate:			
Effect	s on fertility	repr Spe App Met Res	roduction/decies: Rat plication Ro hod: OECE sult: negativ	nbined repeated dose toxicity study with evelopmental toxicity screening test ute: Ingestion D Test Guideline 422 re ed on data from similar materials
Effect: ment	s on foetal develop-	Spe App Res	ecies: Rat blication Ro sult: negativ	bryo-foetal development ute: Ingestion e ed on data from similar materials
Propy	vl 3,4,5-trihydroxyber	zoate:		
Effect	s on fertility	Spe App	cies: Rat	o-generation reproduction toxicity study ute: Ingestion e
Effect ment	s on foetal develop-	Spe App	cies: Rat	bryo-foetal development ute: Ingestion e

Not classified based on available information.

### STOT - repeated exposure

Not classified based on available information.



Version 5.1	n Revision Date: SDS Number: 26.09.2023 17282-00024		Date of last issue: 07.03.2023 Date of first issue: 30.09.2014
Comp Sitag Speci NOAE LOAE Applic Expos	EL	: Mouse : 500 mg/kg : 1,000 mg/kg : Oral : > 2 yr : Kidney	
Expos	EL	: Rat : 500 mg/kg : 1,000 mg/kg : Oral : 14 Weeks : Liver, Kidney, I	Heart, Teeth
Expos	EL EL cation Route sure time of Organs toms	<ol> <li>Dog</li> <li>10 mg/kg</li> <li>50 mg/kg</li> <li>Oral</li> <li>53 Weeks</li> <li>Central nervou</li> <li>Loss of balance</li> <li>The mechanism mans.</li> </ol>	•
Expos	EL EL cation Route sure time et Organs toms	: Loss of balance	e, Central nervous system e n or mode of action may not be relevant in hu-
	EL cation Route sure time	: Monkey : 100 mg/kg : Oral : 14 Weeks : No significant a	adverse effects were reported
	es	: Rat : >= 9,000 mg/kg : Ingestion : 90 Days	g



Versi 5.1	ion	Revision Date: 26.09.2023		98 Number: 282-00024	Date of last issue: 07.03.2023 Date of first issue: 30.09.2014
	Magne	sium stearate:			
	Specie	S	:	Rat	
	NOAEI		:	> 100 mg/kg	
		ation Route	:	Ingestion	
		ure time	:	90 Days	
	Remar	ks	:	Based on data fro	m similar materials
		ım dioxide:			
	Specie		:	Rat	
	NOAEI		:	24,000 mg/kg	
		ation Route	÷	Ingestion	
	Exposi	ure time	•	28 Days	
	Specie		:	Rat	
	NOAEI		:	10 mg/m3	
		ation Route	:	inhalation (dust/m	ist/fume)
	Exposi	ure time	•	2 yr	
		3,4,5-trihydroxybenz	oat	e:	
	Specie		:	Rat	
	NOAEI		:	135 mg/kg	
		ation Route	:	Ingestion	
	Exposi	ure time	·	13 Weeks	
	Aspira	tion toxicity			
	Not cla	ssified based on availa	ble	information.	
	Experi	ence with human exp	osı	ire	
	Compo	onents:			
	Sitagli	ptin:			
	Inhalat	ion	:	Symptoms: upper Headache	respiratory tract infection, pharyngitis,
	Ingesti	nn			respiratory tract infection, nasopharyngitis,
	ngeou		•		a, Abdominal pain, Diarrhoea
SEC	TION 1	2. ECOLOGICAL INFO	DRN	IATION	
	Ecoto	ricity			
		-			
	-	onents:			
	Sitagli	-			
	loxicit	y to fish	:		s promelas (fathead minnow)): > 100 mg/l
				Exposure time: 96 Method: OECD Te	
				wethou. DECD 10	
	Toxicity	y to daphnia and other		FC50 (Daphnia m	agna (Water flea)): 60 mg/l
		invertebrates	•	Exposure time: 48	
				,	



Versi 5.1	on	Revision Date: 26.09.2023		S Number: 282-00024	Date of last issue: 07.03.2023 Date of first issue: 30.09.2014
				Method: OECD Te	est Guideline 202
	Toxicity plants	to algae/aquatic	:	EC50 (Pseudokiro mg/l Exposure time: 96 Method: OECD Te	
				NOEC (Pseudokir mg/l Exposure time: 96 Method: OECD Te	
	Toxicity city)	to fish (Chronic tox-	:	NOEC (Pimephale Exposure time: 33 Method: OECD Te	
á		to daphnia and other invertebrates (Chron- ty)	:	NOEC (Daphnia r 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 h on data from similar materials
I	Magne	sium stearate:			
-	Toxicity	r to fish	:	Exposure time: 48 Method: DIN 3841	
		to daphnia and other invertebrates	:	Exposure time: 47 Test substance: V Method: Directive	Vater Accommodated Fraction 67/548/EEC, Annex V, C.2. on data from similar materials
	Toxicity plants	v to algae/aquatic	:	mg/l Exposure time: 72	hneriella subcapitata (green algae)): > 1 ? h /ater Accommodated Fraction



Version 5.1	Revision Date: 26.09.2023		9S Number: 282-00024	Date of last issue: 07.03.2023 Date of first issue: 30.09.2014
			Remarks: Base	Test Guideline 201 d on data from similar materials e limit of solubility
			mg/l Exposure time: Test substance Method: OECD	lokirchneriella subcapitata (green algae)): > 1 72 h : Water Accommodated Fraction Test Guideline 201 d on data from similar materials
Toxic	ity to microorganisms	:	Exposure time: Test substance	nonas putida): > 100 mg/l 16 h : Water Accommodated Fraction d on data from similar materials
	ium dioxide: ity to fish	:	Exposure time:	nchus mykiss (rainbow trout)): > 100 mg/l 96 h Test Guideline 203
	ity to daphnia and other ic invertebrates	:	EC50 (Daphnia Exposure time:	magna (Water flea)): > 100 mg/l 48 h
Toxic plants	ity to algae/aquatic	:	EC50 (Skeletor Exposure time:	nema costatum (marine diatom)): > 10,000 mg 72 h
Toxic	ity to microorganisms	:	EC50: > 1,000 Exposure time: Method: OECD	
Prop	yl 3,4,5-trihydroxybenz	oat	e:	
	ity to daphnia and other ic invertebrates	:	Exposure time: Test substance	magna (Water flea)): 19.06 mg/l 48 h : Neutralised product Test Guideline 202
Toxic plants	ity to algae/aquatic	:	mg/l Exposure time: Test substance	kirchneriella subcapitata (green algae)): 0.37 72 h : Neutralised product Test Guideline 201
			mg/l Exposure time: Test substance	kirchneriella subcapitata (green algae)): 0.17 72 h : Neutralised product Test Guideline 201
Toxic	ity to microorganisms	:	EC50: 636 mg/ Exposure time:	



ersion 1	Revision Date: 26.09.2023		DS Number: 282-00024	Date of last issue: 07.03.2023 Date of first issue: 30.09.2014
			Method: OEC	D Test Guideline 209
Persi	stence and degradabi	lity		
<u>Com</u>	ponents:			
-	<b>liptin:</b> egradability	:		bidly degradable
			Biodegradatio Exposure time Method: OEC	
Stabil	lity in water	:	Hydrolysis: 50 Method: OEC	) %(401 d) D Test Guideline 111
Cellu	lose:			
Biode	egradability	:	Result: Readi	ly biodegradable.
Magn	nesium stearate:			
Biode	egradability	:	Result: Not bio Remarks: Bas	odegradable ed on data from similar materials
Prop	yl 3,4,5-trihydroxybenz	zoat	e:	
Biode	egradability	:	Biodegradatio Exposure time	
<b>D</b> '			Method. OLC	
	ccumulative potential			
	ponents:			
Partit	l <b>iptin:</b> ion coefficient: n- ol/water	:	log Pow: -0.03	3
-	nesium stearate:			
	ion coefficient: n- ol/water	:	log Pow: > 4	
Propyl 3,4,5-trihydroxybenz		zoat		
	ion coefficient: n- ol/water	:	log Pow: 1.8 Remarks: Cal	culation
Mobi	lity in soil			
Com	ponents:			
Sitag	liptin:			
Distril	bution among environ-	:	log Koc: 4.37	



Version 5.1	Revision Date: 26.09.2023	SDS Number: 17282-00024	Date of last issue: 07.03.2023 Date of first issue: 30.09.2014	
menta	l compartments			
Other	adverse effects			
No dat	ta 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 han-
		dling site for recycling or disposal.
		If not otherwise specified: Dispose of as unused product.

#### **SECTION 14. TRANSPORT INFORMATION**

#### International Regulations

UNRTDG UN number Proper shipping name Class Subsidiary risk Packing group Labels	:	Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable
IATA-DGR UN/ID No. Proper shipping name Class Subsidiary risk Packing group Labels Packing instruction (cargo aircraft) Packing instruction (passen- ger aircraft)		Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable
IMDG-Code UN number Proper shipping name Class Subsidiary risk Packing group Labels EmS Code Marine pollutant	: : : : : :	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.

#### **National Regulations**

ADG



## Sitagliptin Formulation

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Prop Clas Subs Pack Labe	sidiary risk king group	: Not applicat : Not applicat : Not applicat : Not applicat : Not applicat : Not applicat : Not applicat	ole ole ole ole
Spec	ial precautions for u	ser	
Not a	pplicable		
	15. REGULATORY I		legislation specific for the substance or mix-

Prohibition/Licensing Requirements

: There is no applicable prohibition, authorisation and restricted use requirements, including for carcinogens referred to in Schedule 10 of the model WHS Act and Regulations.

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

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

#### SECTION 16: ANY OTHER RELEVANT INFORMATION

Further information		
Revision Date Sources of key data used to compile the Safety Data Sheet	:	26.09.2023 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 abbreviation	ons	
ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)
AU OEL	:	Australia. Workplace Exposure Standards for Airborne Con- taminants.
ACGIH / TWA	:	8-hour, time-weighted average
AU OEL / TWA	:	Exposure standard - time weighted average

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR -



### Sitagliptin Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 07.03.2023
5.1	26.09.2023	17282-00024	Date of first issue: 30.09.2014

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

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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