

Sitagliptin Formulation

Version 4.1	Revision Date: 26.09.2023	SDS Number: 17307-00024	Date of last issue: 07.03.2023 Date of first issue: 30.09.2014	
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SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name	:	Sitagliptin Formulation
Manufacturer or supplier's	deta	ails
Company name of supplier	:	MSD
Address	:	Avenida 16 de Septiembre No. 301 Xaltocan - Xochimilco Mexico 16090
Telephone	:	+52 55 57284444
Emergency telephone	:	1-908-423-6000
E-mail address	:	EHSDATASTEWARD@msd.com
Recommended use of the o	chen	nical and restrictions on use

Recommended use	:	Pharmaceutical
Restrictions on use	:	Not applicable

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification Serious eye damage/eye irritation	:	Category 2A
Skin sensitization	:	Category 1
GHS label elements		
Hazard pictograms	:	
Signal Word	:	Warning
Hazard Statements	:	H317 May cause an allergic skin reaction. H319 Causes serious eye irritation.
Precautionary Statements	:	Prevention: P261 Avoid breathing dust. P264 Wash skin thoroughly after handling. P272 Contaminated work clothing should not be allowed out of the workplace. P280 Wear protective gloves/ eye protection/ face protection.
		Response: P302 + P352 IF ON SKIN: Wash with plenty of water. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention. P337 + P313 If eye irritation persists: Get medical advice/ atten- tion. P362 + P364 Take off contaminated clothing and wash it before



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reuse.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards

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 -< 50
Cellulose	9004-34-6	>= 20 -< 30
Magnesium stearate	557-04-0	>= 1 -< 5
Titanium dioxide	13463-67-7	>= 0.1 -< 1
Propyl 3,4,5-trihydroxybenzoate	121-79-9	>= 0.1 -< 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.
In case of skin contact	:	Get medical attention if symptoms occur. 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	:	May cause an allergic skin reaction. 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. FIRE-FIGHTING MEASURES



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	Suitable extinguishing media		:	Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical		
	Unsuita media	able extinguishing	:	None known.		
	Specifi fighting	c hazards during fire I	:	concentrations, ar 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.	
	Hazaro ucts	lous combustion prod-	:	Carbon oxides Metal oxides Oxides of phosph	orus	
	Specifi 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	
		l protective equipment fighters	:		e, wear self-contained breathing apparatus. ective equipment.	

SECTION 6. ACCIDENTAL RELEASE MEASURES

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 employed in the cleanup of releases. You will need to determine which regulations are applicable. Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.

SECTION 7. HANDLING AND STORAGE

Technical measures

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



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	al/Total ventilation vice on safe handling	and bonding Use only with Do not get of Avoid breath Do not swall Do not get in Wash skin th Handle in ac practice, bas assessment Minimize dus Keep contair Keep away f Take precau Take care to	bw. eyes. oroughly after handling. cordance with good industrial hygiene and safety ed on the results of the workplace exposure at generation and accumulation. her closed when not in use. room heat and sources of ignition. tionary measures against static discharges. prevent spills, waste and minimize release to the
	jiene measures	flushing syst place. When using Contaminate workplace. Wash contar The effective engineering appropriate o industrial hys use of admin	b 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 ninated clothing before re-use. operation of a facility should include review of controls, proper personal protective equipment, degowning and decontamination procedures, giene monitoring, medical surveillance and the istrative controls.
	nditions for safe storage rerials to avoid	Store in acco	erly labeled containers. ordance with the particular national regulations. with the following product types:

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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	VLE-PPT	10 mg/m³	NOM-010- STPS-2014
		TWA	10 mg/m ³	ACGIH
Magnesium stearate	557-04-0	VLE-PPT	10 mg/m³	NOM-010- STPS-2014
		TWA (Inhalable particulate matter)	10 mg/m³	ACGIH
		TWA (Respirable	3 mg/m ³	ACGIH

Ingredients with workplace control parameters



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T '(a , a)			40400 07 7	particulate matter)	10	NOM
litan	ium dioxide		13463-67-7	VLE-PPT	10 mg/m³	NOM-010- STPS-2014
				TWA (Respirable particulate matter)	2.5 mg/m ³ (Titanium dioxide)	ACGIH
This haza	substance(s) is not bio rd.	ava	ilable and the	refore does no	t contribute to a dus	st inhalation
	Titanium dioxide	;				
Engi	neering measures	:	compound. All engineerin design and op	g controls shoul	rols to minimize expo d be implemented by dance with GMP princ d the environment.	facility
Pers	onal protective equipme	ent				
Fi	iratory protection	:	exposure ass	essment demon d guidelines, use	tilation is not available strates exposures ou e respiratory protectio	tside the
	protection aterial	:	Chemical-res	istant gloves		
Eye ç	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 				
Skin	and body protection	:	aerosols. Work uniform	or laboratory co	at.	
CTION	9. PHYSICAL AND CHE	IME	CAL PROPER	TIES		
Арре	arance	:	powder			
Color		:	No data avai	lable		
Odor		:	No data avai	lable		
Odor	Threshold	:	No data avai			
рН		:	No data avai	lable		
Meltir	ng point/freezing point	:	No data avai	lable		
Initial range	boiling point and boiling	:	No data avai	lable		
Flash	point	:	Not applicab	le		
Evap	oration rate	:	Not applicab	le		



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	Flammability (solid, gas)		:	May form explosi handling or other	ve dust-air mixture during processing, means.				
	Flamma	ability (liquids)	:	No data available					
	Upper explosion limit / Upper flammability limit		:	No data available)				
		explosion limit / Lower bility limit	:	No data available					
	Vapor p	oressure	:	Not applicable					
	Relative	e vapor density	:	Not applicable					
	Relative	e density	:	No data available	9				
	Density	,	:	No data available)				
	Solubili Wat	ty(ies) er solubility	:	No data available	9				
	Partitio octanol	n coefficient: n-	:	Not applicable					
		nition temperature	:	No data available)				
	Decom	position temperature	:	No data available)				
	Viscosi Visc	ty cosity, kinematic	:	Not applicable					
	Explosi	ve properties	:	Not explosive					
	Oxidiziı	ng properties	:	The substance of	r mixture is not classified as oxidizing.				
	Molecu	lar weight	:	No data available)				
	Particle	size	:	No data available)				

SECTION 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, handling or other means. Can react with strong oxidizing agents.
Conditions to avoid	:	Heat, flames and sparks. Avoid dust formation.
Incompatible materials Hazardous decomposition	:	Oxidizing agents No hazardous decomposition products are known.



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produ	cts			
SECTION	11. TOXICOLOGICA	L INFC	RMATION	
Inhala Skin o Ingesi	contact	es of e	exposure	
	e toxicity assified based on ava	ailable i	information.	
Comp	oonents:			
-	liptin: oral toxicity	:	LD50 (Rat): >	
			LD50 (Mouse	e): 3,000 mg/kg
Cellu	lose:			
Acute	oral toxicity	:	LD50 (Rat): >	- 5,000 mg/kg
Acute	inhalation toxicity	:	LC50 (Rat): > Exposure time Test atmosph	
Acute	dermal toxicity	:	LD50 (Rabbit): > 2,000 mg/kg
Magn	esium stearate:			
-	oral toxicity	:	Assessment: icity	• 2,000 mg/kg CD Test Guideline 423 The substance or mixture has no acute oral tox• sed on data from similar materials
Acute	dermal toxicity	:): > 2,000 mg/kg sed on data from similar materials
Titani	ium dioxide:			
Acute	oral toxicity	:	LD50 (Rat): >	• 5,000 mg/kg
Acute	inhalation toxicity	:		
Propy	/I 3,4,5-trihydroxybe	nzoate):	
Acute	oral toxicity	:	LD50 (Mouse	e, female): > 1,000 - 2,000 mg/kg
Acute	dermal toxicity	:	LD50 (Rat): >	• 2,000 mg/kg



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		Method: OECD Test Guidel Assessment: The substance toxicity	ine 402 e or mixture has no acute derm	
Skin (corrosion/irritation			
Not classified based on available information.				
Comp	oonents:			
Sitag	liptin:			
Speci	es	: Rabbit		
Metho		: Draize Test		
Resul	lt	: No skin irritation		
Magn	esium stearate:			
Speci	es	: Rabbit		
Resul		: No skin irritation		
Rema	arks	: Based on data from similar	materials	
Titani	ium dioxide:			
Speci		: Rabbit		
Resul	lt	: No skin irritation		
Pron	yl 3,4,5-trihydroxybe	nzoste:		
Speci		: reconstructed human epider	rmis (RhF)	
Metho		: OECD Test Guideline 439		
Resul	lt	: No skin irritation		
Serio	us eye damage/eye	rritation		
	es serious eye irritatio			
<u>Com</u> r	ponents:			
Sitag	liptin:			
Speci	es	: Rabbit		
Speci Resul	es It	: Irritating to eyes.		
Speci	es It			
Specie Resul Metho	es It	: Irritating to eyes.		
Specie Resul Metho Magn Specie	es It od esium stearate: es	Irritating to eyes.Draize TestRabbit		
Specie Resul Metho Magn Specie Resul	es It bod esium stearate: es It	 Irritating to eyes. Draize Test Rabbit No eye irritation 		
Specie Resul Metho Magn Specie	es It bod esium stearate: es It	Irritating to eyes.Draize TestRabbit	materials	
Specie Resul Metho Magn Specie Resul Rema	es It bod esium stearate: es It	 Irritating to eyes. Draize Test Rabbit No eye irritation 	materials	
Specie Resul Metho Magn Specie Resul Rema	es It bd esium stearate: es It arks ium dioxide:	 Irritating to eyes. Draize Test Rabbit No eye irritation 	materials	
Specie Resul Metho Specie Resul Rema	es It od nesium stearate: es It arks ium dioxide: es	 Irritating to eyes. Draize Test Rabbit No eye irritation Based on data from similar 	materials	
Specie Resul Metho Specie Resul Rema Titani Specie Resul	es It od nesium stearate: es It arks ium dioxide: es	 Irritating to eyes. Draize Test Rabbit No eye irritation Based on data from similar Rabbit No eye irritation 	materials	



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Resul Metho			Irreversible effects on the eyeOECD Test Guideline 405					
Resp	iratory or skin sensi	tization						
-	sensitization cause an allergic skin	reaction.						
-	iratory sensitization		tion.					
	ponents:							
Sitag	liptin:							
Test Speci Metho Resul	ies od	: Mouse : OECD						
	• • •							
Test	es of exposure les od lt	: Skin co : Guinea : OECD : negativ	a pig Test Guid /e	-				
Test	es of exposure ies	: Local l : Skin co : Mouse : negativ	ontact	e assay (LLNA)				
Prop	yl 3,4,5-trihydroxybe	nzoate:						
Test Route Speci	Test Type Routes of exposure Species Result		ymph node ontact e	e assay (LLNA)				
Asses	ssment	: Probat	oility or evi	dence of skin sensitization in humans				
	cell mutagenicity lassified based on ava	ailable informa	tion.					
<u>Com</u>	ponents:							
Sitag	liptin:							
-	toxicity in vitro		ype: Ames : negative	stest				
				nosome aberration test in vitro nese hamster ovary cells				



rsion	Revision Date: 26.09.2023	SDS Number: 17307-00024	Date of last issue: 07.03.2023 Date of first issue: 30.09.2014
		Result: nega	tive
		thesis in mar	ONA damage and repair, unscheduled DNA syn- mmalian cells (in vitro) rat hepatocytes tive
Genotoxicity in vivo		: Test Type: M Species: Mo Application F Result: nega	Route: Oral
Cellu	lose:		
Geno	toxicity in vitro	: Test Type: B Result: nega	acterial reverse mutation assay (AMES) tive
		Test Type: Ir Result: nega	n vitro mammalian cell gene mutation test tive
Geno	toxicity in vivo	cytogenetic a Species: Mo	use Route: Ingestion
Magn	esium stearate:		
Geno	toxicity in vitro	Result: nega	n vitro mammalian cell gene mutation test tive ased on data from similar materials
		Method: OE Result: nega	Chromosome aberration test in vitro CD Test Guideline 473 tive ased on data from similar materials
		Result: nega	acterial reverse mutation assay (AMES) tive ased on data from similar materials
Titani	ium dioxide:		
	toxicity in vitro	: Test Type: B Result: nega	acterial reverse mutation assay (AMES) tive
Geno	toxicity in vivo	: Test Type: Ir Species: Mo Result: nega	
Prop	/I 3,4,5-trihydroxyk	enzoate:	
	toxicity in vitro		acterial reverse mutation assay (AMES) tive
			n vitro mammalian cell gene mutation test



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		Result: positi	ve
		Test Type: Cl Result: positi	hromosome aberration test in vitro ve
			NA damage and repair, unscheduled DNA syn- nmalian cells (in vitro) ive
		Test Type: In malian cells Result: positi	vitro sister chromatid exchange assay in mam- ve
Geno	toxicity in vivo	cytogenetic a Species: Mou	ise oute: Intraperitoneal injection
	nogenicity	lable information	
	assified based on ava ponents:	liable information.	
	liptin:		
Speci		: Mouse	
	cation Route	: Oral	
•	sure time	: 2 Years	
Resul	t	: negative	
Speci	es	: Rat	
	cation Route	: oral (drinking	water)
	sure time	: 2 Years	
Resul		: positive	
	t Organs	: Liver	
Rema	arks	: Significant to	xicity observed in testing
Carcir ment	nogenicity - Assess-	: Weight of evi cinogen	dence does not support classification as a car-
Cellu	lose:		
Speci		: Rat	
	cation Route	: Ingestion	
Expos Resul	sure time t	: 72 weeks : negative	
Titani	ium dioxide:		
Speci		: Rat	
Applic	cation Route	: inhalation (du	ist/mist/fume)
	sure time	: 2 Years	
Metho		: OECD Test G	Suideline 453
Resul Rema		: positive · The mechanic	sm or mode of action may not be relevant in hu
			on or mode of action may not be relevant in nu



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				(s) is not bioavailable and therefore does not dust inhalation hazard.
Carcir ment	nogenicity - Assess-	:	Limited evidence animals.	e of carcinogenicity in inhalation studies with
Propy	rl 3,4,5-trihydroxybenz	oat	e :	
Specie	es	:	Rat	
	ation Route	:	Ingestion	
Expos Result	sure time t	:	103 weeks negative	
-	oductive toxicity			
	assified based on availa	ble	information.	
	oonents:			
Sitagl			- · ·	
Effects	s on fertility	:	Test Type: Fert Species: Rat	ility/early embryonic development
			Application Rou	ite [,] Oral
			Fertility: NOAEI	Parent: 1,000 mg/kg body weight testing did not show any effects on fertility.
Effects	s on fetal development	:	Test Type: Emb Species: Rat	pryo-fetal development
			Application Rou	ite: Oral
				LOAEL: 250 mg/kg body weight
			Result: Embryo	toxic effects and adverse effects on the letected., No teratogenic effects.
			Species: Rabbit	
			Teratogenicity: Result: No terat	NOAEL: 125 mg/kg body weight ogenic effects.
Cellul	ose:			
	s on fertility	:	Test Type: One	-generation reproduction toxicity study
	- · · · · · · · · · · · · · · · · · · ·	-	Species: Rat	
			Application Rou	
			Result: negative	9
Effect	s on fetal development	:	Test Type: Fert	ility/early embryonic development
		-	Species: Rat Application Rou Result: negative	ite: Ingestion
Magn	esium stearate:			
-	s on fertility	•	Test Type: Com	bined repeated dose toxicity study with the
21000	o on fording	•		velopmental toxicity screening test



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			Application Route Method: OECD T Result: negative Remarks: Based	
Effec	ts on fetal development	:	Species: Rat Application Route Result: negative	ro-fetal development :: Ingestion on data from similar materials
Prop	yl 3,4,5-trihydroxybenz	oat	e:	
-	ts on fertility	:		eneration reproduction toxicity study
Effec	ts on fetal development	:	Test Type: Embry Species: Rat Application Route Result: negative	vo-fetal development : Ingestion
Not c Repe	Γ-repeated exposure lassified based on availa eated dose toxicity ponents:	able	information.	
Sitag	liptin:			
Expo	EL		Mouse 500 mg/kg 1,000 mg/kg Oral > 2 y Kidney	
Expo	EL		Rat 500 mg/kg 1,000 mg/kg Oral 14 Weeks Liver, Kidney, Hea	art, Teeth
Expo Targe	EL		Dog 10 mg/kg 50 mg/kg Oral 53 Weeks Central nervous s Loss of balance	system



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Re	marks	: The mechanism humans.	n or mode of action may not be relevant in
NC LO Ap Ex Ta Sy	ecies AEL AEL plication Route cosure time rget Organs mptoms marks	: Loss of balance	e, Central nervous system e n or mode of action may not be relevant in
NC Ap Ex	ecies DAEL plication Route posure time marks	: Monkey : 100 mg/kg : Oral : 14 Weeks : No significant a	dverse effects were reported
	llulose:		
	ecies	: Rat	
	AEL	: >= 9,000 mg/kg : Ingestion	
	posure time	: 90 Days	
Ма	gnesium stearate:		
	ecies	: Rat	
-	AEL	: > 100 mg/kg	
	olication Route	: Ingestion	
	oosure time marks	: 90 Days	from similar materials
Re	IIIdiks	. Dased on data	
	anium dioxide:		
	ecies AEL	: Rat : 24,000 mg/kg	
	plication Route	: Ingestion	
	posure time	: 28 Days	
Sp	ecies	: Rat	
NC	AEL	: 10 mg/m ³	
	plication Route	: inhalation (dust	/mist/fume)
Ex	oosure time	: 2 y	
Pro	opyl 3,4,5-trihydroxyben	zoate:	
	ecies	: Rat	
	AEL	: 135 mg/kg	
	plication Route	: Ingestion	
EX	oosure time	: 13 Weeks	
-	• ·• · • •		

Aspiration toxicity

Not classified based on available information.



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Exper	ience with human exp	osi	ire	
<u>Comp</u>	onents:			
Sitagli	iptin:			
Inhalation				per respiratory tract infection, pharyngitis,
Ingesti	on	:		per respiratory tract infection, nasopharyngitis usea, Abdominal pain, Diarrhea
ECTION 1	12. ECOLOGICAL INFO	ORN	IATION	
Ecoto	xicity			
<u>Comp</u>	onents:			
Sitagli	iptin:			
Toxicit	y to fish	:	Exposure time:	ales promelas (fathead minnow)): > 100 mg/l 96 h 9 Test Guideline 203
	y to daphnia and other c invertebrates	:	Exposure time:	a magna (Water flea)): 60 mg/l 248 h 9 Test Guideline 202
Toxicit plants	y to algae/aquatic	:	mg/l Exposure time:	kirchneriella subcapitata (green algae)): > 39 96 h 9 Test Guideline 201
			mg/l Exposure time:	okirchneriella subcapitata (green algae)): 2.2 96 h 9 Test Guideline 201
Toxicit icity)	y to fish (Chronic tox-	:	Exposure time:	nales promelas (fathead minnow)): 9.2 mg/l 33 d 9 Test Guideline 210
	y to daphnia and other c invertebrates (Chron- city)	:	Exposure time:	ia magna (Water flea)): 9.8 mg/l : 21 d 9 Test Guideline 211
Toxicit	y to microorganisms	:		
			NOEC: 150 mg Exposure time: Test Type: Res	
Cellul				
Toxicit	y to fish	:	LC50 (Oryzias	latipes (Japanese medaka)): > 100 mg/l



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				Exposure time: 48 Remarks: Based o	3 h on data from similar materials
	Magnes Toxicity	sium stearate: to fish	:	Exposure time: 48 Method: DIN 384	
		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	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
				mg/l Exposure time: 72 Test substance: V Method: OECD Te	Vater Accommodated Fraction
-	Toxicity	to microorganisms	:	Exposure time: 16 Test substance: V	nas putida): > 100 mg/l 5 h Vater Accommodated Fraction on data from similar materials
-	Titaniu	m dioxide:			
-	Toxicity	to fish	:	LC50 (Oncorhync Exposure time: 96 Method: OECD To	
		to daphnia and other invertebrates	:	EC50 (Daphnia m Exposure time: 48	agna (Water flea)): > 100 mg/l 3 h
	Toxicity plants	to algae/aquatic	:	EC50 (Skeletoner Exposure time: 72	ma costatum (marine diatom)): > 10,000 mg/l 2 h
-	Toxicity	to microorganisms	:	EC50: > 1,000 mg Exposure time: 3 Method: OECD Te	h

Propyl 3,4,5-trihydroxybenzoate:

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 19.06 mg/l



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aquat	ic invertebrates			: 48 h e: Neutralized product) Test Guideline 202
Toxici plants	ty to algae/aquatic	:	mg/l Exposure time Test substance	okirchneriella subcapitata (green algae)): 0.37 : 72 h e: Neutralized product D Test Guideline 201
			mg/l Exposure time Test substance	kirchneriella subcapitata (green algae)): 0.17 : 72 h e: Neutralized product D Test Guideline 201
Toxici	ty to microorganisms	:	EC50: 636 mg Exposure time Method: OECI	
Persi	stence and degradabi	ility		
Comp	oonents:			
Sitag	liptin:			
Biode	gradability	:	Biodegradation Exposure time	
Stabil	ity in water	:	Hydrolysis: 50 %(401 d) Method: OECD Test Guideline 111	
Cellu	lose:			
Biodegradability		:	Result: Readily biodegradable.	
Magn	esium stearate:			
Biode	gradability	:	Result: Not bio Remarks: Bas	degradable ed on data from similar materials
Propy	/l 3,4,5-trihydroxyben	zoat	e:	
Biode	gradability	:	Biodegradation Exposure time	
Bioad	cumulative potential			
<u>Comp</u>	oonents:			
Sitag Partiti	liptin: on coefficient: n-	:	log Pow: -0.03	
i aruu		·	log i 0₩0.00	



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	octanol	/water			
	Magne	sium stearate:			
	Partition coefficient: n- octanol/water		:	log Pow: > 4	
	Propyl	3,4,5-trihydroxybenz	oat	e:	
		n coefficient: n-		log Pow: 1.8 Remarks: Calcula	ation
	Mobilit	y in soil			
	Compo	onents:			
	Sitaglij	otin:			
	Distribu	ition among environ- compartments	:	log Koc: 4.37	
	Other a	adverse effects			
	No data	a available			
SEC	CTION 1	3. DISPOSAL CONSII	DER	ATIONS	

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.

Domestic regulation

NOM-002-SCT Not regulated as a dangerous good

Special precautions for user

Not applicable



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SECTION 15. REGULATORY INFORMATION

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

Federal Law for the control of chemical precursors, : Not applicable essential chemical products and machinery for producing capsules, tablets and pills.

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

SECTION 16. OTHER INFORMATION

Revision Date	:	26.09.2023
Date format	:	dd.mm.yyyy

Full text of other abbreviations

ACGIH NOM-010-STPS-2014	:	USA. ACGIH Threshold Limit Values (TLV) Mexico. Norm NOM-010-STPS-2014 on Chemicals Polluting the Work Environment - Identification, Assessment and Con- trol - Appendix 1 Occupational Exposure Limits
ACGIH / TWA NOM-010-STPS-2014 / VLE- PPT		8-hour, time-weighted average Time weighted average limit value

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 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 Substanc-



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es; (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

Sources of key data used to	:	Internal technical data, data from raw material SDSs, OECD
compile the Material Safety		eChem Portal search results and European Chemicals Agen-
Data Sheet		cy, http://echa.europa.eu/

The information is considered as correct, but not exhaustive, and will be used only as a guide, which is based in the current knowledge of the substance or mixture, and is applicable to proper safety precautions for the product.

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