

Version	Revision Date:	SDS Number:	Date of last issue: 09/30/2023
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SECTION 1. IDENTIFICATION

Product name Other means of identification	:	Sitagliptin / Metformin Extended Release Formulation No data available
Manufacturer or supplier's d	eta	ills
Company name of supplier	:	Merck & Co., Inc
Address	:	126 E. Lincoln Avenue
		Rahway, New Jersey U.S.A. 07065
Telephone	:	908-740-4000
Emergency telephone	:	1-908-423-6000
E-mail address	:	EHSDATASTEWARD@merck.com

Recommended use of the chemical and restrictions on use

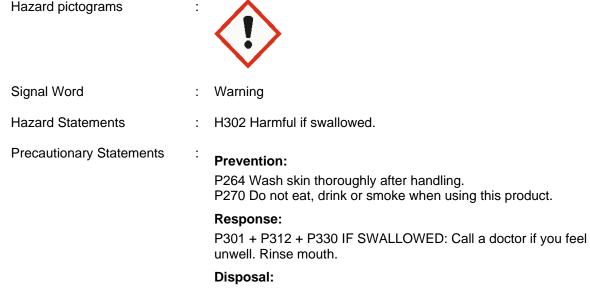
Recommended use	:	Pharmaceutical
Restrictions on use	:	Not applicable

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the Hazardous Products Regulations					
Acute toxicity (Oral)	:	Category 4			

GHS label elements

Hazard pictograms



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

Other hazards

Dust contact with the eyes can lead to mechanical irritation. Contact with dust can cause mechanical irritation or drying of the skin.



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May form explosive dust-air mixture during processing, handling or other means.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

•			
Chemical name	Common Name/Synonym	CAS-No.	Concentration (% w/w)
metformin hydrochlo- ride	No data availa- ble	1115-70-4	>= 60 - < 80 *
Cellulose	No data availa- ble	9004-34-6	>= 10 - < 30 *
Sitagliptin	No data availa- ble	654671-77-9	>= 5 - < 10 *
Kaolin	Hydrated alumi- num silicate	1332-58-7	>= 1 - < 5 *
Titanium dioxide	Titanic anhy- dride	13463-67-7	>= 0.1 - < 1 *

* Actual concentration or concentration range is withheld as a trade secret

SECTION 4. FIRST AID MEASURES

General advice	:	In the case of accident or if you feel unwell, seek medical advice immediately. When symptoms persist or in all cases of doubt seek medical advice
If inhaled	:	If inhaled, remove to fresh air. Get medical attention if symptoms occur.
In case of skin contact	:	Wash with water and soap. Get medical attention if symptoms occur.
In case of eye contact	:	If in eyes, rinse well with water. Get medical attention if irritation develops and persists.
If swallowed	:	If swallowed, DO NOT induce vomiting unless directed to do so by medical personnel. Get medical attention. Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person.
Most important symptoms and effects, both acute and delayed	:	Harmful if swallowed. Contact with dust can cause mechanical irritation or drying of the skin.
Protection of first-aiders	:	Dust contact with the eyes can lead to mechanical irritation. 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

Suitable extinguishing media :

Water spray Alcohol-resistant foam Carbon dioxide (CO2)



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				Dry chemical	
	Jnsuita nedia	ble extinguishing	:	None known.	
	Specific ighting	hazards during fire	:	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. bustion products may be a hazard to health.
	lazard icts	ous combustion prod-	:	Carbon oxides Metal oxides Nitrogen oxides (N	NOx)
	Specific ods	extinguishing meth-	:	cumstances and t Use water spray to	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
	•	protective equipment fighters	:	In the event of fire Use personal prot	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.



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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 and bonding, or inert atmospheres.
Local/Total ventilation Advice on safe handling		Use only with adequate ventilation. Do not breathe dust. Do not swallow. Avoid contact with eyes. Avoid prolonged or repeated contact with skin. Wash skin thoroughly after handling. Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure assessment Minimize dust generation and accumulation. Keep container closed when not in use. Keep away from heat and sources of ignition. Take precautionary measures against static discharges. Do not eat, drink or smoke when using this product. Take care to prevent spills, waste and minimize release to the environment.
Conditions for safe storage	:	Keep in properly labeled containers.
Materials to avoid	:	Store in accordance with the particular national regulations. Do not store with the following product types: Strong oxidizing agents

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ingreatents with workplace		-	-	
Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
metformin hydrochloride	1115-70-4	TWA	1 mg/m3 (OEB 1)	Internal
Cellulose	9004-34-6	TWA	10 mg/m ³	CA AB OEL
		TWA (Total dust)	10 mg/m³	CA BC OEL
		TWA (respir- able dust fraction)	3 mg/m ³	CA BC OEL
		TWAEV (to- tal dust)	10 mg/m ³	CA QC OEL
		TWA	10 mg/m ³	ACGIH
Sitagliptin	654671-77-9	TWA	0.5 mg/m3 (OEB 2)	Internal
Kaolin	1332-58-7	TWA (Res- pirable)	2 mg/m ³	CA AB OEL
		TWA (Res- pirable)	2 mg/m ³	CA BC OEL
		TWAEV	2 mg/m ³	CA QC OEL

Ingredients with workplace control parameters



according to the Hazardous Products Regulations

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			(respirable dust)		
			TWA (Respirable particulate matter)	2 mg/m ³	ACGIH
-	Titanium dioxide	13463-67-7	TWA	10 mg/m ³	CA AB OEL
			TWA (Total dust)	10 mg/m ³	CA BC OEL
			TWA (respir- able dust fraction)	3 mg/m ³	CA BC OEL
			TWAEV (to- tal dust)	10 mg/m³	CA QC OEL
			TWA (Respirable particulate matter)	2.5 mg/m ³ (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 Filter type	:	If adequate local exhaust ventilation is not available or exposure assessment demonstrates exposures outside the recommended guidelines, use respiratory protection. Particulates type
Hand protection	•	
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 Hygiene measures	:	Work uniform or laboratory coat. If exposure to chemical is likely during typical use, provide eye flushing systems and safety showers close to the working place. When using do not eat, drink or smoke. Wash contaminated clothing before re-use. The effective operation of a facility should include review of engineering controls, proper personal protective equipment, appropriate degowning and decontamination procedures,



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				industrial hygiene use of administra	e monitoring, medical surveillance and the tive controls.						
SEC	SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES										
	Appea	rance	:	powder							
	Color		:	blue green							
	Odor		:	No data available	e						
	Odor T	hreshold	:	No data available	e						
	рН		:	No data available	e						
	Melting	g point/freezing point	:	No data available	e						
	Initial b range	poiling point and boiling	:	No data available	e						
	Flash p	point	:	Not applicable							
	Evapo	ration rate	:	Not applicable							
	Flamm	ability (solid, gas)	:	May form explos handling or othe	ive dust-air mixture during processing, r means.						
	Flamm	ability (liquids)	:	No data available	e						
		explosion limit / Upper ability limit	:	No data available	e						
		explosion limit / Lower ability limit	:	No data available	e						
	Vapor	pressure	:	Not applicable							
	Relativ	e vapor density	:	Not applicable							
	Relativ	e density	:	No data available	e						
	Density	y	:	No data available	e						
	Solubil Wa	ity(ies) ter solubility	:	No data available	e						
		n coefficient: n-	:	Not applicable							
	octano Autoigi	nition temperature	:	No data available	e						
	Decom	position temperature	:	No data available	e						
	Viscos	ity									



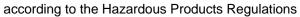
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Vis	scosity, kinematic	: Not applicab	le		
Explosive properties		: Not explosive			
Oxidizing properties		: The substan	ce or mixture is not classified as oxidizing.		
Molecular weight		: No data avai	: No data available		
	le characteristics le size	: No data avai	lable		

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	: Oxidizing agents
Hazardous decomposition products	: No hazardous decomposition products are known.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes Inhalation Skin contact Ingestion Eye contact	s of	exposure
Acute toxicity Harmful if swallowed.		
<u>Product:</u> Acute oral toxicity	:	Acute toxicity estimate: 1,588 mg/kg Method: Calculation method
Components:		
metformin hydrochloride:		
Acute oral toxicity	:	LD50 (Rat): 1,000 mg/kg
		LD50 (Mouse): 1,450 - 3,500 mg/kg
		LD50 (Monkey): 463 mg/kg
		LD50 (Rabbit): 350 mg/kg
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			LD50 (Guinea p	ig): 500 mg/kg		
C	ellulose:					
_	cute oral toxicity	:	LD50 (Rat): > 5,	,000 mg/kg		
Ac	cute inhalation toxicity	:	LC50 (Rat): > 5.8 mg/l Exposure time: 4 h Test atmosphere: dust/mist			
Ac	cute dermal toxicity	:	LD50 (Rabbit): >	> 2,000 mg/kg		
Si	tagliptin:					
	cute oral toxicity	:	LD50 (Rat): > 3	.000 mg/kg		
			LD50 (Mouse):	3,000 mg/kg		
Ka	aolin:					
Ac	cute oral toxicity	:	LD50 (Rat): > 5,000 mg/kg			
Ac	cute dermal toxicity	:	LD50 (Rat): > 5	000 mg/kg		
Ti	tanium dioxide:					
Ac	cute oral toxicity	:	LD50 (Rat): > 5,	,000 mg/kg		
Ac	cute inhalation toxicity	:	LC50 (Rat): > 6. Exposure time: - Test atmospher Assessment: Th tion toxicity	4 h		
Sł	kin corrosion/irritation					
No	ot classified based on ava	ilable	information.			
<u>Co</u>	omponents:					

metformin hydrochloride:

Species Result	: Rabbit : Mild skin irritation
Sitagliptin: Species Method Result	: Rabbit : Draize Test : No skin irritation
Kaolin: Species Method	: Rabbit : OECD Test Guideline 404



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ersion 2	Revision Date: 09/28/2024		S Number: 090-00024	Date of last issue: 09/30/2023 Date of first issue: 11/07/2014			
Resu	lt	:	No skin irritation				
Titan	ium dioxide:						
Spec	ies	:	Rabbit				
Resu		:	No skin irritation				
Serio	ous eye damage/eye	irritatio	on				
Not c	lassified based on av	ailable	information.				
Com	ponents:						
metfo	ormin hydrochloride	: :					
Spec	ies	:	Rabbit				
Resu	lt	:	Mild eye irritation				
Sitag	liptin:						
Spec		:	Rabbit				
Resu		:	Irritating to eyes.				
Metho	DO	:	Draize Test				
Kaoli	in:						
Spec		:	Rabbit				
Resu	lt	:	No eye irritation				
Titan	Titanium dioxide:						
Spec		:	Rabbit				
Resu	It	:	No eye irritation				
Resp	Respiratory or skin sensitization						
Skin	sensitization	ensitization					
Not c	lassified based on av	ailable i	information.				
Resp	iratory sensitizatior	า					
-	lassified based on av		information.				
<u>Com</u>	ponents:						
Sitag	liptin:						
Test	-	:	Local lymph node	assay (LLNA)			
Spec	ies	:	Mouse				
Meth		:	OECD Test Guide				
Resu	lt	:	Not a skin sensiti	zer.			
Titan	ium dioxide:						
Test		:	Local lymph node	e assay (LLNA)			
	es of exposure	:	Skin contact				
Spec	IES	:	Mouse				
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Result		: ne	gative	
Germ o	cell mutagenicity			
Not cla	ssified based on ava	ilable info	ormation.	
Compo	onents:			
metfor	min hydrochloride:			
Genoto	oxicity in vitro		est Type: Bacte esult: negative	erial reverse mutation assay (AMES)
		Te	est Type: in viti est system: mo esult: negative	o test use lymphoma cells
		Te		mosomal aberration man lymphocytes
Genoto	oxicity in vivo	Sp Ap	est Type: Micro pecies: Mouse oplication Rout esult: negative	
Cellulo	ose:			
Genoto	oxicity in vitro		est Type: Bacte esult: negative	erial reverse mutation assay (AMES)
			est Type: In vite esult: negative	o mammalian cell gene mutation test
Genoto	oxicity in vivo	cy Sp Ap	est Type: Mam togenetic assa pecies: Mouse oplication Rout esult: negative	
Sitagli	ptin:			
	oxicity in vitro		est Type: Ame esult: negative	s test
		Te		mosome aberration test in vitro inese hamster ovary cells
Test Type: DNA damage and repair, unsched thesis in mammalian cells (in vitro) Test system: rat hepatocytes Result: negative				
Genoto	oxicity in vivo	: Те	est Type: Micro	nucleus test



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		Species: Mouse Application Rout Result: negative	e: Oral
Titan	ium dioxide:		
Geno	toxicity in vitro	: Test Type: Bacte Result: negative	erial reverse mutation assay (AMES)
Geno	toxicity in vivo	: Test Type: In viv Species: Mouse Result: negative	o micronucleus test
Carc	inogenicity		
Not c	lassified based on ava	ilable information.	
Com	ponents:		
metfo	ormin hydrochloride		
Spec Expo Dose Resu	sure time	: Mouse : 91 weeks : 1500 mg/kg body : negative	y weight
	cation Route sure time	: Rat, male : Oral : 104 weeks : 900 mg/kg body : negative	weight
Expo LOAE Resu	cation Route sure time EL It et Organs	 Rat, female Oral 104 weeks 900 mg/kg body negative Uterus (including The mechanism mans. 	-
Spec Appli	cation Route sure time	: Rat : Ingestion : 72 weeks : negative	
Spec Appli	cation Route sure time	: Mouse : Oral : 2 Years : negative	

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App Exp Res Tar	ecies plication Route posure time sult rget Organs marks	: : : : : : : : : : : : : : : : : : : :	Rat oral (drinking wate 2 Years positive Liver Significant toxicity	er) v observed in testing
Ca me	rcinogenicity - Assess- nt	:	Weight of evidenc cinogen	e does not support classification as a car-
Spe App Exp Me Res	anium dioxide: ecies plication Route posure time thod sult marks		mans. This substance(s)	eline 453 or mode of action may not be relevant in hu- is not bioavailable and therefore does not
Ca me	rcinogenicity - Assess- nt			st inhalation hazard. of carcinogenicity in inhalation studies with
Not	eproductive toxicity ot classified based on available i		information.	
	<u>mponents:</u>			
	etformin hydrochloride: ects on fertility	:	Test Type: Fertilit Species: Rat Application Route Fertility: NOAEL: Result: No effects	: Oral 600 mg/kg body weight
Eff	ects on fetal development	:	Result: No teratoc Test Type: Embry Species: Rabbit Application Route	: Oral oxicity: NOAEL: 600 mg/kg body weight genic effects. ro-fetal development : Oral city.: NOAEL: 140 mg/kg body weight
-				
	Ilulose: ects on fertility	:	Test Type: One-g Species: Rat	eneration reproduction toxicity study

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			Application Route: Result: negative	Ingestion
Effects	on fetal development	:	Test Type: Fertility Species: Rat Application Route: Result: negative	r/early embryonic development Ingestion
Sitaglip	otin:			
	on fertility	:	Species: Rat Application Route: Fertility: NOAEL P	//early embryonic development : Oral Parent: 1,000 mg/kg body weight ting did not show any effects on fertility.
Effects	on fetal development	:	Species: Rat Application Route: Teratogenicity: LC Result: Embryotox	o-fetal development : Oral DAEL: 250 mg/kg body weight kic effects and adverse effects on the ected., No teratogenic effects.
			Species: Rabbit	o-fetal development DAEL: 125 mg/kg body weight enic effects.
	single exposure ssified based on availa	ble i	nformation.	
STOT-r	epeated exposure			
Not clas	ssified based on availa	ble i	nformation.	
Repeat	ed dose toxicity			
<u>Compo</u>	onents:			
Species NOAEL	tion Route re time		Rat 125 mg/kg Oral 1 year No significant adv	erse effects were reported
Species NOAEL Applica Exposu Remark	tion Route re time		Rabbit 100 mg/kg Oral 1 Year	erse effects were reported
Species NOAEL		:	Dog 50 mg/kg	

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	cation Route sure time rks	: Subcutaneou : 2 year : No significar	us nt adverse effects were reported
	es	: Rat : >= 9,000 mg : Ingestion : 90 Days	ı/kg
Expos	es EL	: Mouse : 500 mg/kg : 1,000 mg/kg : Oral : > 2 y : Kidney	
Expos	EL	: Rat : 500 mg/kg : 1,000 mg/kg : Oral : 14 Weeks : Liver, Kidney	/, Heart, Teeth
Expos	EL L cation Route sure time t Organs toms	: Dog : 10 mg/kg : 50 mg/kg : Oral : 53 Weeks : Central nerv : Loss of bala : The mechan humans.	
Expos	EL L cation Route sure time t Organs toms	: Loss of bala	scle, Central nervous system nce ism or mode of action may not be relevant in
	EL cation Route sure time	: Monkey : 100 mg/kg : Oral : 14 Weeks : No significar	nt adverse effects were reported



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dioxide: n Route time	:	Rat 24,000 mg/kg Ingestion	
	:	24,000 mg/kg	
	:		
	:	Indestion	
time	:		
		28 Days	
	:	Rat	
_	:	10 mg/m ³	
n Route	:	inhalation (dust/m	nist/fume)
time	:	2у	
n toxicity			
-	able	information.	
ce with human ex	posı	ıre	
ents:			
n hydrochloride:			
act	:	Remarks: May irri	itate skin.
ct	:	Remarks: May irri	
	:		nea, Nausea, Vomiting, Gastrointestinal dis- e, asthenia, Fatigue, Headache
า:			
	:	Symptoms: upper Headache	r respiratory tract infection, pharyngitis,
	:		r respiratory tract infection, nasopharyngitis, ea, Abdominal pain, Diarrhea
	time n toxicity fied based on avail ce with human ex ents: n hydrochloride: act ct	time : n toxicity fied based on available ce with human exposu ents: n hydrochloride: act : ct : n:	time : 2 y n toxicity fied based on available information. ce with human exposure ents: n hydrochloride: act : Remarks: May irr act : Remarks: May irr : Symptoms: Diarrh comfort, flatulenc n: : Symptoms: upper Headache : Symptoms: upper

Components:

metformin hydrochloride:

Toxicity to algae/aquatic plants	:	EC50 (Pseudokirchneriella subcapitata (green algae)): > 100 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
		NOEC (Pseudokirchneriella subcapitata (green algae)): 100 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
Toxicity to fish (Chronic tox- icity)	:	NOEC (Pimephales promelas (fathead minnow)): 10 mg/l Exposure time: 33 d Method: OECD Test Guideline 210
Toxicity to daphnia and other	:	NOEC (Daphnia magna (Water flea)): 40 mg/l



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	aquatic invertebrates (Chron- ic toxicity)				Exposure time: 21 d Method: OECD Test Guideline 211		
	Toxicity	to microorganisms	:	EC50: > 1,000 mg/l Exposure time: 3 h Test Type: Respiration inhibition Method: OECD Test Guideline 209			
	Cellulo	se:					
	Toxicity		: LC50 (Oryzias latipes (Japanese medaka)): Exposure time: 48 h Remarks: Based on data from similar materi		h		
	Sitaglip	otin-					
	Toxicity		:	LC50 (Pimephales Exposure time: 96 Method: OECD Te			
		to daphnia and other invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: OECD Te			
	Toxicity plants	to algae/aquatic	:	EC50 (Pseudokirc mg/l Exposure time: 96 Method: OECD Te			
				NOEC (Pseudokir mg/l Exposure time: 96 Method: OECD Te			
	Toxicity icity)	to fish (Chronic tox-	:	NOEC (Pimephale Exposure time: 33 Method: OECD Te			
		to daphnia and other invertebrates (Chron- ty)	:	NOEC (Daphnia n Exposure time: 21 Method: OECD Te			
	Toxicity	to microorganisms	:	EC50: > 150 mg/l Exposure time: 3 l Test Type: Respir Method: OECD Te	ation inhibition		
				NOEC: 150 mg/l Exposure time: 3 l Test Type: Respir			

Titanium dioxide:



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То	kicity to fish	:	LC50 (Oncorhync Exposure time: 96 Method: OECD Te	
	kicity to daphnia and other uatic invertebrates	:	EC50 (Daphnia m Exposure time: 48	agna (Water flea)): > 100 mg/l s h
To: pla	kicity to algae/aquatic nts	:	EC50 (Skeletonema costatum (marine diatom)): > 10,000 Exposure time: 72 h	
То	kicity to microorganisms	Exposure		
Pe	rsistence and degradabil	ity		
<u>Co</u>	mponents:			
	tformin hydrochloride: degradability	:	Result: rapidly deg Biodegradation: 5 Exposure time: 2	50 %
Ce	llulose:			
Bio	degradability	:	Result: Readily bi	odegradable.
	agliptin: degradability	:	Result: not rapidly Biodegradation: 3 Exposure time: 28 Method: OECD Te	39.7 % 8 d
Sta	bility in water	:	Hydrolysis: 50 %(Method: OECD Te	
Bic	accumulative potential			
<u>Co</u>	mponents:			
Pa	tformin hydrochloride: rtition coefficient: n- anol/water	:	log Pow: -2	
Pa	agliptin: rtition coefficient: n- anol/water	:	log Pow: -0.03	



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Mobi	lity in soil					
Com	ponents:					
metfo	ormin hydrochloride:					
	bution among environ- al compartments	: log Koc: 4.3 Method: OECD Te	est Guideline 106			
Distri	liptin: bution among environ- al compartments	: log Koc: 4.37				
••	r adverse effects ata available					
SECTION	SECTION 13. DISPOSAL CONSIDERATIONS					
Disp	osal methods					
Wast	e from residues	: Do not dispose of Dispose of in acco	waste into sewer. ordance 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.
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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

TDG Not regulated as a dangerous good

Special precautions for user

Not applicable

SECTION 15. REGULATORY INFORMATION

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

AICS : not determined



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DSL		: not determined	
IECS	C	: not determined	

SECTION 16. OTHER INFORMATION

Full text of other abbreviations

ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)
CA AB OEL	:	Canada. Alberta, Occupational Health and Safety Code (table 2: OEL)
CA BC OEL	:	Canada. British Columbia OEL
CA QC OEL	:	Québec. Regulation respecting occupational health and safe- ty, Schedule 1, Part 1: Permissible exposure values for air- borne contaminants
ACGIH / TWA	:	8-hour, time-weighted average
CA AB OEL / TWA	:	8-hour Occupational exposure limit
CA BC OEL / TWA	:	8-hour time weighted average
CA QC OEL / TWAEV	:	Time-weighted average exposure 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 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



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		es of key data used to e the Material Safety sheet	:		data, data from raw material SDSs, OECD arch results and European Chemicals Agen- iropa.eu/
	Revisio Date fo	on Date ormat	:	09/28/2024 mm/dd/yyyy	

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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