



Version 4.0	Revision Date: 04.04.2023		S Number: 94-00022	Date of last issue: 01.10.2022 Date of first issue: 31.10.2014
SECTION	1. PRODUCT AND C	OMPA		ATION
Produ	Product name		Sitagliptin / M	etformin Formulation
Manu	afacturer or supplier	's detai	ls	
Com	bany	:	MSD	
Addre	ess	:		Bento Soares, 530 o Paulo - Brazil CEP 12730-340
Telep	bhone	:	908-740-4000)
Emer	gency telephone	:	1-908-423-60	00
E-ma	il address	:	EHSDATAST	EWARD@msd.com
Reco	mmended use of the	e chemi	cal and restri	ctions on use
Reco	mmended use	:	Pharmaceutic	cal
Restr	ictions on use	:	Not applicable	e

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification in accordance with ABNT NBR 14725 StandardAcute toxicity (Oral): Category 4					
GHS label elements in accor Hazard pictograms	dar :	nce with ABNT NBR 14725 Standard			
Signal Word	:	Warning			
Hazard Statements	:	H302 Harmful if swallowed.			
Precautionary Statements		Prevention: P264 Wash skin thoroughly after handling. P270 Do not eat, drink or smoke when using this product. Response: P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. Rinse mouth.			

Other hazards which do not result in classification

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	CAS-No.	Classification	Concentration (% w/w)
metformin hydrochloride	1115-70-4	Acute toxicity (Oral), Category 4	>= 70 -< 90
Sitagliptin	654671-77-9	Eye irritation, Category 2A Short-term (acute) aquatic hazard, Category 3	>= 5 -< 10
Cellulose	9004-34-6		>= 1 -< 5
Titanium dioxide	13463-67-7	Carcinogenicity (Inha- lation), Category 2	>= 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. 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	:	Contact with dust can cause mechanical irritation or drying of the skin. Dust contact with the eyes can lead to mechanical irritation. Harmful if swallowed.
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

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



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			Dry chemical				
	uitable extinguishing ia	•	None known.				
	media Specific hazards during fire fighting		 Avoid generating dust; fine dust dispersed in air in sufficiency concentrations, and in the presence of an ignition source potential dust explosion hazard. Exposure to combustion products may be a hazard to here 				
Haz ucts	ardous combustion prod-	:	Carbon oxides Nitrogen oxides Metal oxides	(NOx)			
Spe ods	cific extinguishing meth-	:	cumstances and Use water spray	g measures that are appropriate to local cir- the surrounding environment. to cool unopened containers. aged containers from fire area if it is safe to do			
	cial protective equipment re-fighters	:		e, wear self-contained breathing apparatus. Ditective equipment.			

Personal precautions, protec-	:	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.
	Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres.
Local/Total ventilation	: Use only with adequate ventilation.

SAFETY DATA SHEET



Sitagliptin / Metformin Formulation

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Advice on safe handling		Wash skin thor Handle in accor practice, based assessment Minimize dust g Keep contained Keep away from Take precaution Do not eat, drir				
Hyg	iene measures	: If exposure to o flushing system place. When using do Wash contamin The effective o engineering co appropriate de industrial hygie	chemical is likely during typical use, provide eye as and safety showers close to the working not eat, drink or smoke. hated clothing before re-use. peration of a facility should include review of ntrols, proper personal protective equipment, gowning and decontamination procedures, ne monitoring, medical surveillance and the trative controls.			
Con	ditions for safe storage	: Keep in proper	Keep in properly labeled containers. Store in accordance with the particular national regulations.			
Mate	erials to avoid		Do not store with the following product types: Strong oxidizing agents			

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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
Sitagliptin	654671-77-9	TWA	0.5 mg/m3 (OEB 2)	Internal
Cellulose	9004-34-6	TWA	10 mg/m ³	ACGIH
Titanium dioxide	13463-67-7	TWA (Respirable particulate matter)	2,5 mg/m ³ (Titanium dioxide)	ACGIH

Ingredients with workplace control parameters

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



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			protect product	s, workers, and the environment.			
Pers	onal protective equipm	ent					
Respiratory protection Filter type		:	 If adequate local exhaust ventilation is not available exposure assessment demonstrates exposures out recommended guidelines, use respiratory protectior Particulates type 				
	d protection laterial	:	Chemical-resist	tant gloves			
Eye	protection	:	Wear safety glasses with side shields or goggles. If the work environment or activity involves dusty condition mists or aerosols, wear the appropriate goggles. Wear a faceshield or other full face protection if there is potential for direct contact to the face with dusts, mists, or aerosols.				
Skin	and body protection	:	Work uniform o	r laboratory coat.			
ECTION	I 9. PHYSICAL AND CHI	EMIC	CAL PROPERT	IES			
Арре	earance	:	powder				
Colo	r	:	No data availa	ble			
Odor		:	No data availa	ble			
Odor	Threshold	:	No data availa	ble			
рН		:	No data availa	ble			
Melti	ng point/freezing point	:	No data availa	ble			
Initia range	l boiling point and boiling e	:	No data availa	ble			
Flash	n point	:	Not applicable				
Evap	poration rate	:	Not applicable				
Flam	mability (solid, gas)	:	May form explo handling or oth	osive dust-air mixture during processing, ner means.			
Flam	mability (liquids)	:	No data availa	ble			
	er explosion limit / Upper mability limit	:	: No data available				
	er explosion limit / Lower mability limit	:	No data availa	ble			
Vapo	or pressure	:	Not applicable				
Rela	tive vapor density	:	Not applicable				
Rela	tive density	:	No data availa	ble			



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	Density	1	:	No data available	e
	Solubility(ies) Water solubility		:	No data available	9
	Partitio	n coefficient: n-	:	Not applicable	
		nition temperature	:	No data available	9
	Decom	position temperature	:	No data available	9
	Viscosi Visc	ty cosity, kinematic	:	Not applicable	
	Explosi	ve properties	:	Not explosive	
	Oxidizir	ng properties	:	The substance o	r mixture is not classified as oxidizing.
	Molecular weight		:	No data available	9
	Particle	e size	:	No data available	9

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 of : exposure	nhalation kin contact ngestion ye contact	
Acute toxicity Harmful if swallowed. Broduct:		
Product: Acute oral toxicity :	cute toxicity est lethod: Calculat	imate: 1.380 mg/kg ion method

Components:

metformin hydrochloride:



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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	g
		LD50 (Guinea pig): 500 r	ng/kg
II Sitag	liptin:		
	oral toxicity	: LD50 (Rat): > 3.000 mg/k	<g< td=""></g<>
		LD50 (Mouse): 3.000 mg	/kg
Cellu	lose:		
Acute	e oral toxicity	: LD50 (Rat): > 5.000 mg/k	<g< td=""></g<>
Acute	inhalation toxicity	: LC50 (Rat): > 5,8 mg/l Exposure time: 4 h Test atmosphere: dust/m	ist
Acute	e dermal toxicity	: LD50 (Rabbit): > 2.000 m	ng/kg
Titan	ium dioxide:		
Acute	oral toxicity	: LD50 (Rat): > 5.000 mg/k	<g< td=""></g<>
	inhalation toxicity	 LC50 (Rat): > 6,82 mg/l Exposure time: 4 h Test atmosphere: dust/m Assessment: The substation toxicity 	ist nce or mixture has no acute inhala-
II Skin	corrosion/irritation		
Not c	lassified based on ava	able information.	
<u>Com</u>	oonents:		
metfo	ormin hydrochloride		
Speci Resu	es It	: Rabbit : Mild skin irritation	
Sitag	liptin:		
Speci		: Rabbit	
Metho Resu		: Draize Test : No skin irritation	
Titan	ium dioxide:		
Speci		: Rabbit	
Resu	lt	: No skin irritation	

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Serio	us eye damage/eye i	rritati	on		
	assified based on ava				
Components:					
metfo	rmin hydrochloride:				
Speci		:	Rabbit		
Resul	t	:	Mild eye irritation		
Sitagl	iptin:				
Speci	es	:	Rabbit		
Resul		:	Irritating to eyes.		
Metho	od	:	Draize Test		
Titani	um dioxide:				
Speci		:	Rabbit		
Resul		:	No eye irritation		
Respi	ratory or skin sensit	tizatio	on		
Skin s	sensitization				
Not cl	assified based on ava	ilable	information.		
	ratory sensitization assified based on ava	ilable	information		
_	oonents:				
Sitagl					
Test T	-	:	Local lymph node	e assav (LLNA)	
Speci		:	Mouse		
Metho	d	:	OECD Test Guid		
Resul	t	:	Not a skin sensiti	zer.	
Titani	um dioxide:				
Test T	уре	:	Local lymph node	e assay (LLNA)	
	s of exposure	:	Skin contact		
Speci		:	Mouse		
Resul	t	:	negative		
Germ	cell mutagenicity				
Not classified based on available information.					
<u>Comp</u>	oonents:				
	rmin hydrochloride:				
Genot	oxicity in vitro	:	Test Type: Bacte Result: negative	rial reverse mutation assay (AMES)	
			Test Type: in vitro	a test	
				use lymphoma cells	
			Result: negative	7 1	
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		,	nromosomal aberration Human lymphocytes ive
Geno	otoxicity in vivo	: Test Type: Mi Species: Mou Application R Result: negat	oute: Oral
Sitad	liptin:		
	otoxicity in vitro	: Test Type: Ar Result: negat	
			nromosome aberration test in vitro Chinese hamster ovary cells ive
		thesis in marr	NA damage and repair, unscheduled DNA syn- Imalian cells (in vitro) rat hepatocytes ive
Geno	otoxicity in vivo	: Test Type: Mi Species: Mou Application R Result: negat	oute: Oral
II Cellu	llose:		
	otoxicity in vitro	: Test Type: Ba Result: negat	acterial reverse mutation assay (AMES)
		Test Type: In Result: negat	vitro mammalian cell gene mutation test
Geno	otoxicity in vivo	cytogenetic a Species: Mou	se Dute: Ingestion
II Titan	ium dioxide:		
	otoxicity in vitro	: Test Type: Ba Result: negat	acterial reverse mutation assay (AMES)
Geno	otoxicity in vivo	: Test Type: In Species: Mou Result: negat	

Carcinogenicity

Not classified based on available information.



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Comp	oonents:		
metfo Specie Expose Result Specie Applic Expose Result	es sure time t es cation Route sure time	 Mouse 91 weeks 1500 mg/kg bod negative Rat, male Oral 104 weeks 900 mg/kg body negative Rat, female Oral 	
Expos LOAE Resul	sure time L t t Organs	: 104 weeks : 900 mg/kg body : negative : Uterus (includin	-
	es cation Route sure time	: Mouse : Oral : 2 Years : negative	
Expos Resul	ation Route sure time t t Organs	: Rat : oral (drinking wa : 2 Years : positive : Liver : Significant toxic	ater) ity observed in testing
Carcir ment	nogenicity - Assess-	: Weight of evide cinogen	nce does not support classification as a car-
	es cation Route sure time	: Rat : Ingestion : 72 weeks : negative	
Specie Applic	cation Route sure time od t	 Rat inhalation (dust) 2 Years OECD Test Gui positive The mechanism mans. 	



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				is not bioavailable and therefore does not st inhalation hazard.
Carcir ment	nogenicity - Assess-	:	Limited evidence animals.	of carcinogenicity in inhalation studies with
-	oductive toxicity assified based on availa	able	information.	
<u>Comp</u>	oonents:			
	rmin hydrochloride:			
Effect	s on fertility	:	Test Type: Fertilit Species: Rat Application Route Fertility: NOAEL: Result: No effects	: Oral 600 mg/kg body weight
Effect	s on fetal development	:	Test Type: Develo Species: Rat Application Route Developmental To Result: No teratog	: Oral oxicity: NOAEL: 600 mg/kg body weight
			Species: Rabbit Application Route	city.: NOAEL: 140 mg/kg body weight
Sitagl	liptin:			
	s on fertility	:	Species: Rat Application Route Fertility: NOAEL F	y/early embryonic development : Oral Parent: 1.000 mg/kg body weight sting did not show any effects on fertility.
Effect	s on fetal development	:	Species: Rat Application Route Teratogenicity: LC Result: Embryoto	ro-fetal development :: Oral DAEL: 250 mg/kg body weight xic effects and adverse effects on the tected., No teratogenic effects.
			Species: Rabbit	ro-fetal development DAEL: 125 mg/kg body weight genic effects.
Cellul	ose:			
Effect	s on fertility	:	Test Type: One-g Species: Rat Application Route	eneration reproduction toxicity study



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			Result: negative	
Effec	ts on fetal development	:	Test Type: Fertility Species: Rat Application Route Result: negative	y/early embryonic development : Ingestion
	T-single exposure classified based on availa	ble	information.	
	T-repeated exposure classified based on availa	ble	information.	
Repe	eated dose toxicity			
<u>Com</u>	ponents:			
metf	ormin hydrochloride:			
	EL cation Route sure time	:	Rat 125 mg/kg Oral 1 year No significant adv	erse effects were reported
	EL cation Route sure time		Rabbit 100 mg/kg Oral 1 Year No significant adv	erse effects were reported
	EL cation Route sure time	:	Dog 50 mg/kg Subcutaneous 2 year No significant adv	erse effects were reported
Spec NOA LOAI Appli Expo	EL	:	Mouse 500 mg/kg 1.000 mg/kg Oral > 2 y Kidney	
Expo	EL EL ication Route isure time et Organs		Rat 500 mg/kg 1.000 mg/kg Oral 14 Weeks Liver, Kidney, Hea Dog 10 mg/kg	art, Teeth
LOAI	EL	:	50 mg/kg	



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Expos		 Oral 53 Weeks Central nervous system Loss of balance The mechanism or mode of action may not be relevant in humans.
Expos	EL EL sation Route sure time t Organs toms	 Dog 2 mg/kg 10 mg/kg Oral 27 Weeks Skeletal muscle, Central nervous system Loss of balance The mechanism or mode of action may not be relevant in humans.
	EL cation Route sure time	 Monkey 100 mg/kg Oral 14 Weeks No significant adverse effects were reported
	es	 Rat >= 9.000 mg/kg Ingestion 90 Days
Specie NOAE Applic		: Rat : 24.000 mg/kg : Ingestion : 28 Days
Specie NOAE Applic Expos		 Rat 10 mg/m³ inhalation (dust/mist/fume) 2 y
Not cl	ation toxicity assified based on avail rience with human ex	
	oonents:	
Skin o	ormin hydrochloride: contact ontact tion	 Remarks: May irritate skin. Remarks: May irritate eyes. Symptoms: Diarrhea, Nausea, Vomiting, Gastrointestinal discomfort, flatulence, asthenia, Fatigue, Headache

Sitagliptin:



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Inhala		Headache : Symptoms: upp	er respiratory tract infection, pharyngitis, er respiratory tract infection, nasopharyngitis, sea, Abdominal pain, Diarrhea

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

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 aquatic invertebrates (Chron- ic toxicity)	:	NOEC (Daphnia magna (Water flea)): 40 mg/l 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
Sitagliptin:		
Toxicity to fish	:	LC50 (Pimephales promelas (fathead minnow)): > 100 mg/l Exposure time: 96 h Method: OECD Test Guideline 203
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 60 mg/l Exposure time: 48 h Method: OECD Test Guideline 202
Toxicity to algae/aquatic plants	:	EC50 (Pseudokirchneriella subcapitata (green algae)): > 39 mg/l Exposure time: 96 h Method: OECD Test Guideline 201
		NOEC (Pseudokirchneriella subcapitata (green algae)): 2,2 mg/l Exposure time: 96 h

Method: OECD Test Guideline 201



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Toxicit icity)	y to fish (Chronic tox-	:	NOEC (Pimephale Exposure time: 33 Method: OECD Te	
	y to daphnia and other c invertebrates (Chron- ity)	:	NOEC (Daphnia r Exposure time: 21 Method: OECD Te	
Toxicit	y 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	ose:			
Toxicit	y to fish	:	Exposure time: 48	ipes (Japanese medaka)): > 100 mg/l 3 h on data from similar materials
Titaniu	um dioxide:			
Toxicit	y to fish	:	LC50 (Oncorhync Exposure time: 96 Method: OECD Te	
	y to daphnia and other c invertebrates	:	EC50 (Daphnia m Exposure time: 48	agna (Water flea)): > 100 mg/l 3 h
Toxicit plants	y to algae/aquatic	:	EC50 (Skeletoner Exposure time: 72	na costatum (marine diatom)): > 10.000 m 2 h
Toxicit	y to microorganisms	:	EC50: > 1.000 mg Exposure time: 3 Method: OECD Te	h
Persis	tence and degradabili	ity		
Comp	onents:			
metfor	rmin hydrochloride:			
	gradability	:	Result: rapidly de Biodegradation: 5 Exposure time: 2	50 %
Sitagli	ptin:			
Biodeg	gradability	:	Result: not rapidly Biodegradation: 3 Exposure time: 28 Method: OECD Te	39,7 % 3 d



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Stability in water		:	Hydrolysis: 50 %(401 d) Method: OECD Test Guideline 111		
Cellul					
Biodeg	gradability	:	Result: Readily bi	odegradable.	
Bioac	cumulative potential				
<u>Comp</u>	onents:				
metfo	rmin hydrochloride:				
Partition coefficient: n- octanol/water		:	log Pow: -2		
Sitagl	iptin:				
Partition coefficient: n- octanol/water		:	log Pow: -0,03		
Mobility in soil					
<u>Comp</u>	onents:				
metfo	rmin hydrochloride:				
Distrib menta	ution among environ- I compartments	:		est Guideline 106	
Sitagl	iptin:				
Distribution among environ- mental compartments		:	log Koc: 4,37		
Other adverse effects No data available					
SECTION 13. DISPOSAL CONSIDERATIONS					

Disposal methods

Waste from residues	: Dispose of in accordance with local regulations. Do not dispose of waste into sewer.
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





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Not a	Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable for product as supplied.						
	estic regulation						
ANTT Not re	egulated as a dangero	us good					
-	ial precautions for us pplicable	ser					
SECTION	15. REGULATORY IN	FORMATION					
	Safety, health and environmental regulations/legislation specific for the substance or mixture						
Natio	National List of Carcinogenic Agents for Humans - (LINACH)						
	o 2B: Possibly carcino um dioxide	genic to humans	13463-67-7				
Brazil Police	l. List of chemicals con e	trolled by the Federal	: Not applicable				

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

:	not determined
:	not determined
:	not determined
	:

SECTION 16. OTHER INFORMATION

Revision Date	:	04.04.2023
Date format	:	dd.mm.yyyy

Further information

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/

Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

Full text of other abbreviations

ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)
ACGIH / TWA	:	8-hour, 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 - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for



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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 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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