

Version 4.1	Revision Date: 30.09.2023		S Number: 5317-00018	Date of last issue: 04.04.2023 Date of first issue: 01.04.2016		
SECTION	SECTION 1. IDENTIFICATION					
Produ	Product name		Ertugliflozin / Me	etformin Formulation		
Manufacturer or supplier's details						
Com	bany	:	MSD			
Addre	Address		855 Leandro N. Alem St., 8 Floor Buenos Aires, Argentina C1001AFB			
Telep	Telephone		908-740-4000			
Emer	Emergency telephone		1-908-423-6000			
E-ma	E-mail address		EHSDATASTEWARD@msd.com			
Reco	mmended use of the	chem	ical and restricti	ons on use		
	mmended use ictions on use	:	Pharmaceutical Not applicable			

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification Acute toxicity (Oral)	:	Category 4
GHS label elements Hazard pictograms	:	
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.
		Disposal: P501 Dispose of contents/ container to an approved waste disposal plant.



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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. 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)
metformin hydrochloride	1115-70-4	>= 70 -< 90
Cellulose	9004-34-6	>= 10 -< 20
Magnesium stearate	557-04-0	>= 1 -< 5
Ertugliflozin	1210344-83-4	>= 0,25 -< 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 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	:	Harmful if swallowed.
and effects, both acute and delayed		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) Dry chemical
Unsuitable extinguishing media	:	None known.
Specific hazards during fire fighting	:	Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.



Ertugliflozin / Metformin Formulation

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				Exposure to comb	oustion products may be a hazard to health.
	lazardo icts	ous combustion prod-	:	Carbon oxides Nitrogen oxides (N Metal oxides	NOx)
	Specific extinguishing meth- ods		:	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
		protective equipment ighters	:		e, wear self-contained breathing apparatus. rective equipment.
SECT	ION 6.	ACCIDENTAL RELE	ASE	EMEASURES	
ti	ve equ	al precautions, protec- ipment and emer- rocedures	:		ective equipment. ing advice (see section 7) and personal ent recommendations (see section 8).
E	Environ	mental precautions	:	Retain and dispos	akage or spillage if safe to do so. se of contaminated wash water. should be advised if significant spillages
	Methods and materials for containment and cleaning up		:	Sweep up or vacuum up spillage and collect in suitable container for disposal. Avoid dispersal of dust in the air (i.e., clearing dust surface with compressed air). Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they a 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 ite employed in the cleanup of releases. You will need to determine which regulations are applicable. Sections 13 and 15 of this SDS provide information regard certain local or national requirements.	
SECT	ION 7.	HANDLING AND ST	OR/	AGE	
L	.ocal/To	al measures otal ventilation on safe handling	:	causing an explose Provide adequate and bonding, or in Use only with ade Do not breathe du Do not swallow. Avoid contact with Avoid prolonged of Wash skin thoroug	precautions, such as electrical grounding nert atmospheres. equate ventilation. ust.



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	tions for safe storage	assessment Minimize dust g Keep container Keep away from Take precautior Do not eat, drin Take care to pro environment. Keep in propert Store in accord	on the results of the workplace exposure eneration and accumulation. closed when not in use. In heat and sources of ignition. hary measures against static discharges. k or smoke when using this product. event spills, waste and minimize release to the y labeled containers. ance with the particular national regulations. h the following product types: g 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	TŴA	1 mg/m3 (OEB 1)	Internal
Cellulose	9004-34-6	CMP	10 mg/m ³	AR OEL
		TWA	10 mg/m ³	ACGIH
Magnesium stearate	557-04-0	CMP	10 mg/m ³	AR OEL
	Further inform	ation: A4 - Not c	lassifiable as a huma	n carcinogen
		TWA (Inhalable particulate matter)	10 mg/m³	ACGIH
		TWA (Respirable particulate matter)	3 mg/m ³	ACGIH
Ertugliflozin	1210344-83- 4	TWA	10 µg/m3 (OEB 3)	Internal
		Wipe limit	100 µg/100 cm ²	Internal

Ingredients with workplace control parameters

Engineering measures :	All engineering controls should be implemented by facility design and operated in accordance with GMP principles to protect products, workers, and the environment. Containment technologies suitable for controlling compounds are required to control at source and to prevent migration of the compound to uncontrolled areas (e.g., open-face containment devices). Minimize open handling.
Personal protective equipment	
Respiratory protection :	If adequate local exhaust ventilation is not available or exposure assessment demonstrates exposures outside the

	exposure assessment demonstrates exposures outsid recommended guidelines, use respiratory protection.
Filter type Hand protection	: Particulates type
nanu protection	



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M	aterial	: Chemical-res	istant gloves	
Remarks Eye protection		 Consider double gloving. 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		Additional bo task being pe disposable su Use appropri	: Work uniform or laboratory coat. Additional body garments should be used based upon the task being performed (e.g., sleevelets, apron, gauntlets, disposable suits) to avoid exposed skin surfaces. Use appropriate degowning techniques to remove potentially contaminated clothing.	
Hygiene measures		: If exposure to eye flushing s working place When using o Wash contan The effective engineering o appropriate o industrial hyg	o chemical is likely during typical use, provide systems and safety showers close to the	

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	powder
Color	:	No data available
Odor	:	No data available
Odor 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
Evaporation rate	:	Not applicable
Flammability (solid, gas)	:	May form explosive dust-air mixture during processing, handling or other means.
Flammability (liquids)	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available



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		explosion limit / Lower bility limit	:	No data available	
	Vapor p	pressure	:	Not applicable	
	Relative	e vapor density	:	Not applicable	
	Relative	e density	:	No data available	•
	Density	,	:	No data available	•
	Solubili Wat	ty(ies) er solubility	:	No data available	
	Partitio octanol	n coefficient: n-	:	Not applicable	
		hition temperature	:	No data available	
	Decom	position temperature	:	No data available	
	Viscosi Visc	ty cosity, kinematic	:	Not applicable	
	Explosi	ve properties	:	Not explosive	
		ng properties	:		mixture is not classified as oxidizing.
	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.
products		

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure	:	Inhalation Skin contact
·		Ingestion Eye contact

Acute toxicity

Harmful if swallowed.



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<u>Prodι</u> Acute	<u>uct:</u> oral toxicity	:	Acute toxicity est Method: Calculat	imate: 1.337 mg/kg ion method
Comp	oonents:			
	rmin hydrochloride: oral toxicity	:	LD50 (Rat): 1.00) mg/kg
			LD50 (Mouse): 1	.450 - 3.500 mg/kg
			LD50 (Monkey):	463 mg/kg
			LD50 (Rabbit): 3	50 mg/kg
			LD50 (Guinea pig	y): 500 mg/kg
Cellul	lose:			
Acute	oral toxicity	:	LD50 (Rat): > 5.0	00 mg/kg
Acute	inhalation toxicity	:	LC50 (Rat): > 5,8 Exposure time: 4 Test atmosphere	h
Acute	dermal toxicity	:	LD50 (Rabbit): >	2.000 mg/kg
Magn	esium stearate:			
-	oral toxicity	:	Assessment: The icity	00 mg/kg est Guideline 423 substance or mixture has no acute oral tox on data from similar materials
Acute	dermal toxicity	:	LD50 (Rabbit): > Remarks: Based	2.000 mg/kg on data from similar materials
Ertug	liflozin:			
Acute	oral toxicity	:	LD50 (Rat): 500 (mg/kg
Acute	inhalation toxicity	:	Remarks: No dat	a available
Acute	dermal toxicity	:	Remarks: No dat	a available
-	corrosion/irritation assified based on availa	able	information.	
Comp	oonents:			
metfo Specie Resul		:	Rabbit Mild skin irritatior	I



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Magn	esium stearate:		
Speci	es	: Rabbit	
Resu		: No skin irrita	
Rema	arks	: Based on da	ta from similar materials
Ertug	liflozin:		
Resul	t	: Corrosive	
Serio	us eye damage/eye	irritation	
Not cl	assified based on ava	ailable information.	
Com	oonents:		
metfo	ormin hydrochloride	:	
Speci		: Rabbit	
Resul	t	: Mild eye irrita	ation
Magn	esium stearate:		
Speci		: Rabbit	
Resul		: No eye irritat	
Rema	arks	: Based on da	ta from similar materials
-	liflozin:		
Resul	t	: Severe irritat	lion
Resp	iratory or skin sensi	tization	
Skin	sensitization		
Not cl	assified based on ava	ailable information.	
Resp	iratory sensitization		
	assified based on ava		
<u>Comp</u>	oonents:		
Magn	esium stearate:		
Test		: Maximization	
	es of exposure	: Skin contact	
Speci Metho		: Guinea pig	Guideline 406
Resul		: negative	
Rema			ta from similar materials
Ertua	liflozin:		
Test		: Local lymph	node assay (LLNA)
Resul		: Not a skin se	
	cell mutagenicity		

Not classified based on available information.



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	<u>Comp</u>	onents:			
		r min hydrochloride: oxicity in vitro	:	Test Type: Bacter Result: negative	ial reverse mutation assay (AMES)
				Test Type: in vitro Test system: mou Result: negative	o test ise lymphoma cells
				Test Type: Chrom Test system: Hun Result: negative	nosomal aberration nan lymphocytes
	Genote	oxicity in vivo	:	Test Type: Micror Species: Mouse Application Route Result: negative	
	Cellul	ose:			
	Genote	oxicity in vitro	:	Test Type: Bacter Result: negative	ial reverse mutation assay (AMES)
				Test Type: In vitro Result: negative	o mammalian cell gene mutation test
	Genoto	oxicity in vivo	:	Test Type: Mamn cytogenetic assay Species: Mouse Application Route Result: negative	
	Magne	esium stearate:			
	-	oxicity in vitro	:	Result: negative	o mammalian cell gene mutation test on data from similar materials
				Method: OECD T Result: negative	nosome aberration test in vitro est Guideline 473 on data from similar materials
				Result: negative	rial reverse mutation assay (AMES) on data from similar materials
	Ertugl	iflozin:			
	Genote	oxicity in vitro	:	Test Type: Bacter Result: negative	ial reverse mutation assay (AMES)
				Test Type: Chron Result: negative	nosome aberration test in vitro



ersion 1	Revision Date: 30.09.2023	SDS Number: 595317-00018	Date of last issue: 04.04.2023 Date of first issue: 01.04.2016
Genot	toxicity in vivo	: Test Type: Ma cytogenetic as Species: Rat Result: negati	
	nogenicity assified based on ava	ilable information.	
<u>Comp</u>	oonents:		
metfo	rmin hydrochloride:		
Speci	es	: Mouse	
	sure time	: 91 weeks	
Dose		: 1500 mg/kg b	ody weight
Resul	t	: negative	
Speci	es	: Rat, male	
Applic	ation Route	: Oral	
Expos	sure time	: 104 weeks	
Dose		: 900 mg/kg bo	dy weight
Resul	t	: negative	
Speci		: Rat, female	
	ation Route	: Oral	
	sure time	: 104 weeks	
LOAE		: 900 mg/kg bo	dy weight
Resul		: negative	
Rema	t Organs rks	: Uterus (includ : The mechanis mans.	sm or mode of action may not be relevant in hu
Cellul	lose:		
Speci	es	: Rat	
•	ation Route	: Ingestion	
	sure time	: 72 weeks	
Resul	t	: negative	
Frtua	liflozin:		
Speci		: Mouse	
	ation Route	: Oral	
	sure time	: 2 Years	
Resul		: negative	
Speci	es	: Rat	
	ation Route	: Oral	
	sure time	: 2 Years	
Resul	t	: negative	
Carcir ment	nogenicity - Assess-	: Weight of evic cinogen	dence does not support classification as a car-



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-	oductive toxicity lassified based on availa	able	information.	
Com	ponents:			
metfe	ormin hydrochloride:			
Effec	ts on fertility	:	Test Type: Ferti Species: Rat Application Rou Fertility: NOAEL Result: No effect	ite: Oral .: 600 mg/kg body weight
Effec	ts on fetal development	:	Test Type: Deve Species: Rat Application Rou Developmental Result: No terat	te: Oral Toxicity: NOAEL: 600 mg/kg body weight
			Species: Rabbit Application Rou	ite: Oral xicity.: NOAEL: 140 mg/kg body weight
Cellu	llose:			
Effec	ts on fertility	:	Test Type: One Species: Rat Application Rou Result: negative	
Effec	ts on fetal development	:	Test Type: Ferti Species: Rat Application Rou Result: negative	•
Magr	nesium stearate:			
-	ts on fertility	:	reproduction/de Species: Rat Application Rou Method: OECD Result: negative	Test Guideline 422
Effec	ts on fetal development	:	Species: Rat Application Rou Result: negative	
Ertug	gliflozin:			
	ts on fertility	:	Test Type: Ferti Species: Rat	ility/early embryonic development



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			Remarks: Matern	e: Oral 250 mg/kg body weight lal toxicity observed. verse effects were reported
			Species: Rabbit Application Route Fertility: NOAEL:	ty/early embryonic development e: Oral 200 mg/kg body weight nificant adverse effects were reported
Effec	ts on fetal development	:	Species: Rat Application Route Developmental T	yo-fetal development e: Oral oxicity: NOAEL: 50 mg/kg body weight se developmental effects were observed
			Species: Rabbit Application Route Developmental T	yo-fetal development e: Oral oxicity: NOAEL: 250 mg/kg body weight nificant adverse effects were reported
	F-single exposure lassified based on availa	able	information.	
	F -repeated exposure			
	lassified based on availa	able	information.	
	ponents:			
Route Targe	gliflozin: es of exposure et Organs ssment	:	Oral Kidney, Stomach May cause dama exposure.	, Prostate ge to organs through prolonged or repeated
Repe	ated dose toxicity			
Com	ponents:			
metfo	ormin hydrochloride:			

Species	: Rat
NOAEL	: 125 mg/kg
Application Route	: Oral
Exposure time	: 1 year
Remarks	: No significant adverse effects were reported
Species	: Rabbit
NOAEL	: 100 mg/kg
Application Route	: Oral
Exposure time	: 1 Year
Remarks	: No significant adverse effects were reported
Species	: Dog



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	cation Route sure time	: 50 mg/kg : Subcutaneous : 2 year : No significant	adverse effects were reported	
	ies	: Rat : >= 9.000 mg/k : Ingestion : 90 Days	g	
Speci NOAI Applio	EL cation Route sure time	: Rat : > 100 mg/kg : Ingestion : 90 Days : Based on data	from similar materials	
Speci LOAE Applie		: Rat : 500 mg/kg : Oral : 30 d		
Expo		: Rat : 250 mg/kg : Oral : 30 d : Kidney		
Expo		: Rat : 25 mg/kg : Oral : 180 d : Kidney, Bone,	Stomach	
		: Rat : 25 mg/kg : 90 d : Kidney, Gastro	pintestinal tract, Prostate	
	EL cation Route sure time	: Dog : 150 mg/kg : Oral : 270 d : No significant	adverse effects were reported	
	EL cation Route sure time	: Mouse : 100 mg/kg : Oral : 90 d : No significant	adverse effects were reported	



/ersion .1	Revision Date: 30.09.2023		0S Number: 5317-00018	Date of last issue: 04.04.2023 Date of first issue: 01.04.2016
Expo	EL cation Route sure time et Organs		Mouse 100 mg/kg Oral 28 d Bone No significant adv	erse effects were reported
-	ration toxicity			
	lassified based on availa rience with human exp			
-	oonents:			
metfo	ormin hydrochloride:			
	contact contact tion	:		
-	liflozin:			
Inges	tion	:	constipation, Diar	nost common side effects are:, Headache, rhea, Nausea, urinary tract infection, muscle atory tract infection
<u>Com</u>	oxicity ponents:			
	ormin hydrochloride: ity to algae/aquatic s	:	EC50 (Pseudokiro mg/l Exposure time: 72 Method: OECD To	
			NOEC (Pseudokin mg/l Exposure time: 72 Method: OECD Te	
Toxic icity)	ity to fish (Chronic tox-	:	NOEC (Pimephale Exposure time: 33 Method: OECD Te	
	ity to daphnia and other tic invertebrates (Chron- icity)	:	NOEC (Daphnia r Exposure time: 21 Method: OECD Te	
Toxic	ity to microorganisms	:	EC50: > 1.000 mg Exposure time: 3 Test Type: Respir Method: OECD Te	h ation inhibition



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Ce	ellulo	se:			
Τc	Toxicity to fish		:	Exposure time: 48	ipes (Japanese medaka)): > 100 mg/l 3 h on data from similar materials
Ma	agnes	sium stearate:			
Τc	oxicity	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
	oxicity ants	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
Τc	oxicity	to microorganisms	:	Exposure time: 16 Test substance: V	nas putida): > 100 mg/l 5 h Vater Accommodated Fraction on data from similar materials
Er	rtuglif	lozin:			
Тс		to algae/aquatic	:	EC50 (Pseudokiro Exposure time: 72 Method: OECD Te	
				NOEC (Pseudokir mg/l Exposure time: 72 Method: OECD Te	
	oxicity ty)	to fish (Chronic tox-	:	Exposure time: 32 Method: OECD Te	



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	Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)		:	 NOEC (Daphnia magna (Water flea)): 2,14 mg/l Exposure time: 21 d Method: OECD Test Guideline 211 Remarks: No toxicity at the limit of solubility. 		
	Toxicity to microorganisms		:	EC50: > 1.000 mg/l Exposure time: 3 h Test Type: Respiration inhibition Method: OECD Test Guideline 209		
				NOEC: 1.000 mg/ Exposure time: 3 Test Type: Respir Method: OECD Te	h ation inhibition	
	Persiste	ence and degradabili	ty			
	<u>Compor</u>	nents:				
	metform	nin hydrochloride:				
	Biodegra	adability	:	Result: rapidly deg Biodegradation: 5 Exposure time: 2	50 %	
	Cellulos	se:				
	Biodegra	adability	:	Result: Readily bio	odegradable.	
	Magnes	ium stearate:				
	Biodegra	adability	:	Result: Not biodeo Remarks: Based o	gradable on data from similar materials	
	Ertuglifl	lozin:				
	Biodegra	adability	:	Result: Not readily Biodegradation: 4 Exposure time: 28	10,8 %	
	Bioaccu	umulative potential				
	<u>Compor</u>	nents:				
	metform	nin hydrochloride:				
	Partition octanol/	coefficient: n- water	:	log Pow: -2		
	-	ium stearate: coefficient: n- water	:	log Pow: > 4		
	Ertuglifl Partition octanol/	coefficient: n-	:	log Pow: 2,47		



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Mobi	lity in soil						
<u>Com</u>	oonents:						
metfo	ormin hydrochloride:						
	oution among environ- al compartments	: log k Meth		est Guideline 106			
Ertug	liflozin:						
	oution among environ- al compartments	: log k	Koc: 2,88				
	r adverse effects ata available						
SECTION 13. DISPOSAL CONSIDERATIONS							
Dien	sal mothods						
-	osal methods						
Waste	e from residues			waste into sewer. ordance with local regulations.			

Empty containers should be taken to an approved waste

If not otherwise specified: Dispose of as unused product.

handling site for recycling or disposal.

SECTION 14. TRANSPORT INFORMATION

:

International Regulations

Contaminated packaging

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.

Special precautions for user

Not applicable

SECTION 15. REGULATORY INFORMATION

Safety, health and environmental regulations/legisla mixture	atio	n specific for the substance or
Argentina. Carcinogenic Substances and Agents Registry.	:	Not applicable
Control of precursors and essential chemicals for the preparation of drugs.	:	Not applicable



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The	ingredients of this pro-	duct a	re reported in tl	ne following inventories:				
AIC	S	: n	ot determined					
DSL		: n	ot determined					
IEC	SC	: n	ot determined					
SECTIO	N 16. OTHER INFORMA	TION						
	ision Date e format	-	0.09.2023 d.mm.yyyy					
Furt	her information							
com	rces of key data used to pile the Material Safety a Sheet	е		data, data from raw material SDSs, OECD arch results and European Chemicals Agen- ropa.eu/				
Full	text of other abbreviati	ons						
ACC AR (eshold Limit Values (TLV) ational Exposure Limits				
	GIH / TWA DEL / CMP		-hour, time-weig LV (Threshold L					
Land Card Star x% ENC x% g tem; - Int Equ cent cal s Mari gani	AR OEL / CMP : TLV (Threshold 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 Sys- tem; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory con- centration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemi- cal Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Or- ganisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Con- centration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median							

centration 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 Recom-



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mendations 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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