

Version 5.0	Revision Date: 04.04.2023		S Number: 86-00022	Date of last issue: 01.10.2022 Date of first issue: 31.10.2014
SECTION	1. IDENTIFICATION			
Produ	uct name	:	Sitagliptin / M	letformin Formulation
Manu	ufacturer or supplier	's detai	ls	
Com	pany	:	MSD	
Addre	Address		Talcahuano 750, 6th floor, Ciudad Autonoma Buenos Aires, Argentina C1013AAP	
Telep	Telephone		908-740-400	0
Emer	gency telephone	:	1-908-423-60	000
E-ma	il address	:	EHSDATAST	EWARD@msd.com
Reco	ommended use of the	e chemi	cal and restri	ictions on use
Reco	mmended use	:	Pharmaceution	cal
Restr	ictions on use	:	Not applicabl	e
SECTION	2. HAZARDS IDENT	IFICATI	ON	
GHS	Classification			

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
Sitagliptin	654671-77-9	>= 5 -< 10
Cellulose	9004-34-6	>= 1 -< 5
Titanium dioxide	13463-67-7	>= 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	:	
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) 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.



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			Exposure to comb	pustion products may be a hazard to health.
Haz	ardous combustion prod-	:	Carbon oxides Nitrogen oxides (N Metal oxides	NOx)
	Specific extinguishing meth- ods		Use extinguishing measures that are appropriate to local cir- cumstances and the surrounding environment. Use water spray to cool unopened containers. Remove undamaged containers from fire area if it is safe to d so. Evacuate area.	
	cial protective equipment ire-fighters	:		e, wear self-contained breathing apparatus. ective equipment.
SECTIO	N 6. ACCIDENTAL RELE	ASI	EMEASURES	
tive	sonal precautions, protec- equipment and emer- cy procedures	:		ective equipment. ing advice (see section 7) and personal ent recommendations (see section 8).
Env	Environmental 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.	

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.
Advice on safe handling	:	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



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	ditions for safe storage erials to avoid	assessment Minimize dust ge Keep container of Keep away from Take precaution Do not eat, drink Take care to pre environment. Keep in properly Store in accorda Do not store with	on the results of the workplace exposure eneration and accumulation. closed when not in use. heat and sources of ignition. ary measures against static discharges. or smoke when using this product. vent spills, waste and minimize release to the clabeled containers. nce with the particular national regulations. the following product types:
		Strong oxidizing	agents

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Components	CAS-No.	Value type	Control parame-	Basis
		(Form of	ters / Permissible	
		exposure)	concentration	
metformin hydrochloride	1115-70-4	TWA	1 mg/m3 (OEB 1)	Internal
Sitagliptin	654671-77-9	TWA	0.5 mg/m3 (OEB	Internal
5			2)	
Cellulose	9004-34-6	CMP	10 mg/m ³	AR OEL
		TWA	10 mg/m ³	ACGIH
Titanium dioxide	13463-67-7	CMP	10 mg/m ³	AR OEL
	Further information	ation: A4 - Not c	assifiable as a huma	n carcinogen
		TWA	2,5 mg/m ³	ACGIH
		(Respirable	(Titanium dioxide)	
		particulate		
		matter)		

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 equipmen	t
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.



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	and body protection ne measures	 potential for di aerosols. Work uniform If exposure to eye flushing sy working place. When using da Wash contami The effective of engineering co appropriate de industrial hygic 	hield or other full face protection if there is a rect contact to the face with dusts, mists, or or laboratory coat. chemical is likely during typical use, provide ystems and safety showers close to the o not eat, drink or smoke. nated clothing before re-use. operation of a facility should include review of ontrols, proper personal protective equipment, ogowning and decontamination procedures, ene monitoring, medical surveillance and the strative controls.

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
Lower explosion limit / Lower flammability limit	:	No data available
Vapor pressure	:	Not applicable
Relative vapor density	:	Not applicable
Relative density	:	No data available
Density	:	No data available



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Solubility(ies) Water solubility Partition coefficient: n- octanol/water Autoignition temperature	No data availableNot applicableNo data available	
Decomposition temperature	: No data available	
Viscosity Viscosity, kinematic Explosive properties	Not applicableNot explosive	
Oxidizing properties Molecular weight Particle size	The substance or mixture is notNo data availableNo data available	classified as oxidizing.

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

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of : exposure	Inhalation Skin contact Ingestion Eye contact
Acute toxicity	
Harmful if swallowed.	
Product:	
Acute oral toxicity :	Acute toxicity estimate: 1.380 mg/kg Method: Calculation method
Components:	

metformin hydrochloride:

Acute oral toxicity	: LD50 (Rat): 1.000 mg/kg



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II		LD50 (Mou	se): 1.450 - 3.500 mg/kg		
		LD50 (Monl	key): 463 mg/kg		
		bit): 350 mg/kg			
		LD50 (Guin	ea pig): 500 mg/kg		
II Sitag	liptin:				
	e oral toxicity	: LD50 (Rat):	> 3.000 mg/kg		
		LD50 (Mou	se): 3.000 mg/kg		
Cellu	llose:				
Acute	e oral toxicity	: LD50 (Rat):	> 5.000 mg/kg		
Acute	e inhalation toxicity	: LC50 (Rat): Exposure ti Test atmos			
Acute	e dermal toxicity	: LD50 (Rabb	: LD50 (Rabbit): > 2.000 mg/kg		
Titan	ium dioxide:				
Acute	e oral toxicity	: LD50 (Rat):	> 5.000 mg/kg		
Acute	e inhalation toxicity	Exposure ti Test atmos	 > 6,82 mg/l me: 4 h ohere: dust/mist t: The substance or mixture has no acute inhala- 		
II Skin	corrosion/irritation				
Not c	lassified based on ava	ailable information.			
Com	ponents:				
metfo Spec	ormin hydrochloride	: : Rabbit			
Resu	lt	: Mild skin irr	itation		
Sitag	liptin:				
Spec		: Rabbit			
Meth Resu			Draize TestNo skin irritation		
Titan	ium dioxide:				
Spec		: Rabbit	ation		
Resu	п	: No skin irrit	allon		

SAFETY DATA SHEET



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Serio	ous eye damage/eye i	irritati	ion	
Not c	lassified based on ava	ilable	information.	
Com	ponents:			
metfo	ormin hydrochloride:			
Spec Resu		:	Rabbit Mild eye irritation	
Sitag	liptin:			
Spec		:	Rabbit	
Resu		:	Irritating to eyes.	
Meth	od	÷	Draize Test	
Titan	ium dioxide:			
Spec		:	Rabbit	
Resu	lt	:	No eye irritation	
Resp	iratory or skin sensit	tizatio	on	
Skin	sensitization			
Not c	lassified based on ava	ilable	information.	
-	iratory sensitization			
Not c	lassified based on ava	ilable	information.	
Com	ponents:			
Sitag	liptin:			
Test		:	Local lymph node	e assay (LLNA)
Spec		:	Mouse	
Meth Resu		:	OECD Test Guid Not a skin sensiti	
Titon	ium dioxide:			
Test			Local lymph node	
	es of exposure	÷	Skin contact	assay (LLINA)
Spec		:	Mouse	
Resu	lt	:	negative	
Germ	n cell mutagenicity			
Not c	lassified based on ava	ilable	information.	
Com	ponents:			
metfo	ormin hydrochloride:	1		
	otoxicity in vitro	:	Test Type: Bacte Result: negative	rial reverse mutation assay (AMES)
			Test Type: in vitro	
			Test system: mou Result: negative	use lymphoma cells
			Result. negative	
			8 / 18	
			0/10	



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			hromosomal aberration Human lymphocytes tive
Geno	toxicity in vivo	: Test Type: M Species: Mou Application R Result: negat	coute: Oral
Sitaq	liptin:		
	toxicity in vitro	: Test Type: A Result: negat	
			hromosome aberration test in vitro Chinese hamster ovary cells tive
		thesis in man	NA damage and repair, unscheduled DNA syn- nmalian cells (in vitro) rat hepatocytes tive
Geno	toxicity in vivo	: Test Type: M Species: Mou Application R Result: negat	coute: Oral
Cellu	lose:		
Geno	toxicity in vitro	: Test Type: Ba Result: negat	acterial reverse mutation assay (AMES) tive
		Test Type: In Result: negat	vitro mammalian cell gene mutation test tive
Geno	toxicity in vivo	cytogenetic a Species: Mou	use coute: Ingestion
Titan	ium dioxide:		
Geno	toxicity in vitro	: Test Type: Ba Result: negat	acterial reverse mutation assay (AMES) tive
Geno	toxicity in vivo	: Test Type: In Species: Mou Result: negat	

Carcinogenicity

Not classified based on available information.



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<u>Comp</u>	oonents:						
metfo	ormin hydrochloride:						
Speci		: Mouse					
	sure time	: 91 weeks					
Dose	1	: 1500 mg/kg boo	dy weight				
Resul	t	: negative					
Speci		: Rat, male					
Applic	cation Route	: Oral					
Expos	sure time	: 104 weeks	(weight				
Resul	t	: 900 mg/kg body : negative	/ weight				
Speci	es	: Rat, female					
Applic	cation Route	: Oral					
	sure time	: 104 weeks					
LOAE		: 900 mg/kg body	/ weight				
Resul		: negative					
	et Organs	: Uterus (includin					
Rema	IIKS	mans.	n or mode of action may not be relevant in hu-				
Sitag	liptin:						
Speci	es	: Mouse					
	cation Route	: Oral : 2 Years					
	sure time						
Resul	t	: negative					
Speci	es	: Rat					
	cation Route	: oral (drinking w	ater)				
	sure time	: 2 Years					
Resul		: positive					
Targe	t Organs	: Liver	·····				
Rema	Irks	: Significant toxic	ity observed in testing				
Carci	nogenicity - Assess-		nce does not support classification as a car-				
ment		cinogen					
Cellu							
Speci		: Rat					
	cation Route	: Ingestion					
	sure time	: 72 weeks					
Resul	t	: negative					
Titani	ium dioxide:						
Speci		: Rat					
	cation Route	: inhalation (dust/mist/fume)					
	sure time	: 2 Years					
Metho		: OECD Test Guideline 453					
Resul		: positive					
Rema	IIKS	: The mechanism mans.	n or mode of action may not be relevant in hu-				
		mano.					



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				is not bioavailable and therefore does not st inhalation hazard.
Carci ment	nogenicity - Assess-	:	Limited evidence animals.	of carcinogenicity in inhalation studies with
-	oductive toxicity lassified based on availa	ble	information.	
Com	ponents:			
	ormin hydrochloride:			
Effec	ts on fertility	:	Test Type: Fertilit Species: Rat Application Route Fertility: NOAEL: Result: No effects	: Oral 600 mg/kg body weight
Effec	ts on fetal development	:	Test Type: Develo Species: Rat Application Route Developmental To Result: No teratoo	: Oral oxicity: NOAEL: 600 mg/kg body weight
			Species: Rabbit Application Route	city.: NOAEL: 140 mg/kg body weight
Sitad	liptin:			
	ts 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.
Effec	ts on fetal development	:	Species: Rat Application Route Teratogenicity: LO Result: Embryoto	vo-fetal development e: Oral DAEL: 250 mg/kg body weight xic effects and adverse effects on the tected., No teratogenic effects.
			Species: Rabbit	vo-fetal development OAEL: 125 mg/kg body weight genic effects.
Cellu	llose:			
Effec	ts on fertility	:	Test Type: One-g Species: Rat Application Route	eneration reproduction toxicity study : Ingestion



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I			Result: negative	
Effe	cts on fetal development	:	Test Type: Fertilit Species: Rat Application Route Result: negative	y/early embryonic development : Ingestion
)T-single exposure classified based on availa	ble	information.	
STC	T-repeated exposure			
Not	classified based on availa	ble	information.	
Rep	eated dose toxicity			
<u>Con</u>	nponents:			
met	formin hydrochloride:			
Spe		:	Rat	
NOA		:	125 mg/kg	
	lication Route osure time	÷	Oral 1 year	
Rem		÷		erse effects were reported
			-	•
Spe		:	Rabbit	
NOA	lication Route	÷	100 mg/kg Oral	
	osure time	÷	1 Year	
Rem		:		erse effects were reported
Spe	cies		Dog	
NOA		÷	50 mg/kg	
Арр	lication Route	:	Subcutaneous	
	osure time	:	2 year	
Ren	narks	:	No significant adv	erse effects were reported
Sita	gliptin:			
Spe	• •	:	Mouse	
NO/		:	500 mg/kg	
LOA		:	1.000 mg/kg	
	lication Route	:	Oral	
	osure time get Organs	÷	> 2 y Kidney	
			•	
Spe NO/		÷	Rat 500 mg/kg	
LOA		:	1.000 mg/kg	
	lication Route	÷	Oral	
Exp	osure time	:	14 Weeks	
Targ	get Organs	:	Liver, Kidney, Hea	art, Teeth
Spe	cies	:	Dog	
NOA		:	10 mg/kg	
LOA	\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 cation 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
Cellu	lose:	
		: Rat : >= 9.000 mg/kg : Ingestion : 90 Days
Titani	ium dioxide:	
		 Rat 24.000 mg/kg Ingestion 28 Days
		 Rat 10 mg/m³ inhalation (dust/mist/fume) 2 y
•	ation toxicity assified based on ava	lable information.
Expe	rience with human ex	posure
Comp	oonents:	
metfo	ormin hydrochloride:	
Skin o	contact ontact	 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		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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Toxicity icity)	/ to fish (Chronic tox-	:	NOEC (Pimephale Exposure time: 33 Method: OECD Te	
	/ to daphnia and other invertebrates (Chron- ity)	:	NOEC (Daphnia r Exposure time: 21 Method: OECD Te	
Toxicity	/ to microorganisms	:	EC50: > 150 mg/l Exposure time: 3 Test Type: Respir Method: OECD Te	ation inhibition
			NOEC: 150 mg/l Exposure time: 3 Test Type: Respir	
Celluio	ose:			
Toxicity	/ to fish	:	Exposure time: 48	ipes (Japanese medaka)): > 100 mg/l 3 h on data from similar materials
Titaniu	ım dioxide:			
Toxicity	/ to fish	:	LC50 (Oncorhync Exposure time: 96 Method: OECD Te	
	/ 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	na costatum (marine diatom)): > 10.000 m 2 h
Toxicity	/ to microorganisms	:	EC50: > 1.000 mg Exposure time: 3 Method: OECD Te	h
Persis	tence and degradabili	ity		
Compo	onents:			
metfor	min hydrochloride:			
	radability	:	Result: rapidly de Biodegradation: 5 Exposure time: 2	50 %
Sitagli	ptin:			
Biodeg	radability	:	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	
Cellulose: Biodegradability		:	Result: Readily biodegradable.	
	cumulative potential			
Partitio	metformin hydrochloride: Partition coefficient: n- octanol/water		log Pow: -2	
Sitagl	iptin:			
	Partition coefficient: n- octanol/water		log Pow: -0,03	
Mobility in soil				
Comp	onents:			
metfo	rmin hydrochloride:			
	ution among environ- I compartments	:		est Guideline 106
Sitagl	iptin:			
	ution among environ- I 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. 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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	sport in bulk accordi pplicable for product a	-		ARPOL 73/78 and the IBC Code			
•	ial precautions for u pplicable	ser					
ECTION	15. REGULATORY II	NFOR	MATION				
Safet mixtu		nmen	tal regulations	/legislation specific for the substance or			
-	Argentina. Carcinogenic Substances and Agents : Not applicable Registry.						
	rol of precursors and e aration of drugs.	essent	ial chemicals fo	r the : Not applicable			
The i	ngredients of this pr	oduci	are reported i	n the following inventories:			
AICS	i	:	not determine	d			
DSL		:	not determine	d			
IECS	С	:	not determine	d			
SECTION	16. OTHER INFORM	ATIO	N				
	sion Date format	:	04.04.2023 dd.mm.yyyy				
Furth	ner information						
0.	· · · · · · · · · · · · · · · · · · ·						

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 AR OEL	USA. ACGIH Threshold Limit Values (TLV) Argentina. Occupational Exposure Limits
ACGIH / TWA AR OEL / CMP	8-hour, time-weighted average 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-



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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 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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