

Boceprevir Formulation

Version	Revision Date: 26.09.2023	SDS Number:	Date of last issue: 20.03.2023
6.1		23683-00022	Date of first issue: 21.10.2014

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name

: Boceprevir Formulation

Manufacturer or supplier's details						
Company name of supplier	:	MSD				
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@msd.com				
Recommended use of the chemical and restrictions on use						

Recommended use:PharmaceuticalRestrictions on use:Not applicable

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification		
Skin corrosion/irritation	:	Category 3
Reproductive toxicity	:	Category 2
GHS label elements		
Hazard pictograms	:	
Signal Word	:	Warning
Hazard Statements	:	H316 Causes mild skin irritation. H361f Suspected of damaging fertility.
Precautionary Statements	:	 Prevention: P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. Response: P308 + P313 IF exposed or concerned: Get medical advice/
		attention. P332 + P313 If skin irritation occurs: Get medical advice/ atten- tion.
		Storage: P405 Store locked up.
		Disposal:
		P501 Dispose of contents/ container to an approved waste dis-



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posal plant.

Other hazards

Dust contact with the eyes can lead to mechanical irritation. 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)
Boceprevir	394730-60-0	>= 50 -< 70
Starch	9005-25-8	>= 10 -< 20
Cellulose	9004-34-6	>= 10 -< 20
Sodium n-dodecyl sulfate	151-21-3	>= 3 -< 5
Magnesium stearate	557-04-0	>= 1 -< 5

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.
In case of skin contact	:	In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.
In case of eye contact	:	If in eyes, rinse well with water. Get medical attention if irritation develops and persists.
If swallowed	:	If swallowed, DO NOT induce vomiting. Get medical attention. Rinse mouth thoroughly with water.
Most important symptoms and effects, both acute and delayed Protection of first-aiders	:	Causes mild skin irritation. Suspected of damaging fertility. 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
Notes to physician	:	when the potential for exposure exists (see section 8). 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.



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Specil fightin	iic hazards during fire g	:	concentrations, an 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.
Hazar ucts	dous combustion prod-	:	Carbon oxides Nitrogen oxides (I Metal oxides Sulfur oxides	NOx)
Specif ods	ic extinguishing meth-	:	cumstances and t Use water spray t	measures that are appropriate to local cir- he surrounding environment. o cool unopened containers. ged containers from fire area if it is safe to do
	al protective equipment e-fighters	:	In the event of fire	e, wear self-contained breathing apparatus. ective equipment.
SECTION	6. ACCIDENTAL RELE	AS	EMEASURES	
tive ec	nal precautions, protec- quipment and emer- procedures	:	Follow safe handl	ective equipment. ing advice (see section 7) and personal ent recommendations (see section 8).
Enviro	onmental precautions	:	Retain and dispos	akage or spillage if safe to do so. e of contaminated wash water. should be advised if significant spillages
	ds and materials for nment and cleaning up	:	container for disper Avoid dispersal of with compressed Dust deposits sho surfaces, as these released into the a Local or national in disposal of this m employed in the c determine which in Sections 13 and 1	dust in the air (i.e., clearing dust surfaces

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 get on skin or clothing.
-		Do not breathe dust.



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		Do not swallow. Avoid contact with eyes. 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. Take care to prevent spills, waste and minimize release to the environment.				
Hygiene measures		:	 If exposure to chemical is likely during typical use, provide a flushing systems and safety showers close to the working place. When using do not eat, drink or smoke. Wash contaminated clothing before re-use. 			
Co	onditi	ons for safe storage	:	Keep in properly Store locked up.	abeled containers.	
Ma	ateria	als to avoid	:	ce with the particular national regulations. the following product types: agents		

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

J		-		
Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Boceprevir	394730-60-0	TWA	2 mg/m3 (OEB 1)	Internal
Starch	9005-25-8	VLE-PPT	10 mg/m ³	NOM-010- STPS-2014
		TWA	10 mg/m ³	ACGIH
Cellulose	9004-34-6	VLE-PPT	10 mg/m ³	NOM-010- STPS-2014
		TWA	10 mg/m ³	ACGIH
Magnesium stearate	557-04-0	VLE-PPT	10 mg/m ³	NOM-010- STPS-2014
		TWA (Inhalable particulate matter)	10 mg/m ³	ACGIH
		TWA (Respirable particulate matter)	3 mg/m ³	ACGIH

Ingredients with workplace control parameters

Engineering measures

 Ensure adequate ventilation, especially in confined areas. Minimize workplace exposure concentrations. Apply measures to prevent dust explosions. Ensure that dust-handling systems (such as exhaust ducts, dust collectors, vessels, and processing equipment) are designed in a manner to prevent the escape of dust into the



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			work area (i.a	there is no lookage from the equipment)			
Porse	onal protective equipm	ont	work area (i.e.,	there is no leakage from the equipment).			
Filter type Hand protection		:	If adequate local exhaust ventilation is not available or exposure assessment demonstrates exposures outside the recommended guidelines, use respiratory protection. Particulates type				
	aterial	:	Chemical-resis	tant gloves			
Remarks		:	Choose gloves to protect hands against chemicals depend on the concentration specific to place of work. Breakthroug time is not determined for the product. Change gloves ofter For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer. Wash hands before breaks and at the end of workday.				
Eye p	protection	:	Wear the follow	ving personal protective equipment:			
Skin a	Skin and body protection		 Safety goggles Select appropriate protective clothing based on chemical resistance data and an assessment of the local exposure potential. Skin contact must be avoided by using impervious protective clothing (gloves, aprons, boots, etc). 				
ECTION	9. PHYSICAL AND CHI	EMI	CAL PROPERT	IES			
Appea	arance	:	powder				
Color		:	white				
Odor		:	No data availa	ble			
Odor	Threshold	:	No data availa	ble			
pН		:	No data availa	ble			
Meltir	ng point/freezing point	:	No data availa	ble			
Initial range	al boiling point and boiling		No data availa	ble			
Flash	point	:	No data availa	ble			
Evapo	oration rate	:	No data availa	ble			
Flamr	nability (solid, gas)	:	May form expl handling or oth	osive dust-air mixture during processing, ner means.			
Flamr	nability (liquids)	:	Not applicable				
	Upper explosion limit / Upper flammability limit		No data availa	ble			



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		explosion limit / Lower bility limit	:	No data available	
	Vapor p	oressure	:	Not applicable	
	Relative	e vapor density	:	Not applicable	
	Relative	e density	:	No data available)
	Density	/	:	No data available)
	Solubili Wat	ity(ies) er solubility	:	No data available)
	Solu	ubility in other solvents	:	No data available)
	Partitio octanol	n coefficient: n-	:	Not applicable	
		nition temperature	:	No data available)
	Decom	position temperature	:	No data available)
	Viscosi Visc	ty cosity, kinematic	:	No data available	9
	Explosi	ve properties	:	Not explosive	
	Oxidizii	ng properties	:	The substance or	mixture is not classified as oxidizing.
	Molecu	lar weight	:	No data available)
	Particle	e 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	:	Oxidizing agents
Hazardous decomposition products	:	No hazardous decomposition products are known.



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SECTION	11. TOXICOLOGICA	L INFO	ORMATION	
	mation on likely rout	es of o	exposure	
Inges	contact			
	e toxicity lassified based on ava	ailable	information.	
<u>Produ</u> Acute	uct: oral toxicity	:	Acute toxicity e Method: Calcul	stimate: > 5,000 mg/kg ation method
Comp	oonents:			
	previr:			
Acute	oral toxicity	:	LD50 (Rat): > 2	
			LD50 (Monkey)): > 1,000 mg/kg
Starc				
Acute	oral toxicity	:	LD50 (Rat): > 5	5,000 mg/kg
Acute	e dermal toxicity	:	LD50 (Rabbit):	> 2,000 mg/kg
Cellu	lose:			
Acute	oral toxicity	:	LD50 (Rat): > 5	5,000 mg/kg
Acute	inhalation toxicity	:	LC50 (Rat): > 5 Exposure time: Test atmosphe	4 h
Acute	e dermal toxicity	:	LD50 (Rabbit):	> 2,000 mg/kg
Sodiı	um n-dodecyl sulfate	:		
	oral toxicity		LD50 (Rat): 1,2 Method: OECD	200 mg/kg 9 Test Guideline 401
Acute	e dermal toxicity	:		2,000 mg/kg 9 Test Guideline 402 ed on data from similar materials
-	esium stearate:			
Acute	oral toxicity	:	Assessment: T icity	2,000 mg/kg Test Guideline 423 he substance or mixture has no acute oral tox ed on data from similar materials



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nal toxicity psion/irritation Id skin irritation. <u>nts:</u> ir: -dodecyl sulfate: m stearate:		LD50 (Rabbit): > 2,000 mg/kg Remarks: Based on data from similar materials Rabbit No skin irritation
Id skin irritation. <u>nts:</u> ir: -dodecyl sulfate:	:	
ir: -dodecyl sulfate:	:	
-dodecyl sulfate:	:	
	:	
	:	No skin irritation
	:	
	:	
m stearate:		Rabbit
m stearate:	·	Skin irritation
	:	Rabbit
	:	No skin irritation Based on data from similar materials
ied based on availa <u>nts:</u> ir:		
	:	Rabbit Mild eye irritation
	:	Rabbit
	:	No eye irritation
-dodecyl sulfate:		
	:	Rabbit
	:	Irreversible effects on the eye
	:	OECD Test Guideline 405
m stearate:		
	:	Rabbit
	:	No eye irritation Based on data from similar materials
	•	Dascu un uala num similar malendis
	atio	on
r		n stearate: ; ; y or skin sensitizatio tization

Not classified based on available information.



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Resp	iratory sensitization				
Not cl	assified based on ava	ailable information.			
Com	<u>oonents:</u>				
Boce	previr:				
Test T	Гуре	: Maximization	Test		
Speci		: Guinea pig			
Resul	lt	: negative			
Starc	h:				
Test T	Гуре	: Maximization	Test		
	es of exposure	: Skin contact			
Speci		: Guinea pig			
Resul	lt	: negative			
Sodiu	um n-dodecyl sulfate	e :			
Test	Гуре	: Maximization	Test		
	es of exposure	: Skin contact			
Speci		: Guinea pig			
Resu		: negative			
Rema	arks	: Based on data from similar materials			
Magn	esium stearate:	te:			
Test 7	Гуре	: Maximization	Test		
	es of exposure	: Skin contact			
Speci	es	: Guinea pig			
Metho		: OECD Test G	uideline 406		
Resu		: negative			
Rema	arks	: Based on data	a from similar materials		
Germ	cell mutagenicity				
	assified based on ava	ailable information.			
<u>Com</u>	<u>oonents:</u>				
	previr:	Tool Turon Do	atorial reverse mutation access (AMEC)		
Geno	toxicity in vitro	Result: negativ	cterial reverse mutation assay (AMES) ve		
			romosomal aberration		
		Result: negativ	ve		
Geno	toxicity in vivo		cronucleus test		
		Species: Mous			
		Application Ro Result: negative			
Store	h.				
Starc		TT			
	h: toxicity in vitro	: Test Type: Ba Result: negativ	cterial reverse mutation assay (AMES		



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Cellu	lose:						
Geno	toxicity in vitro		est Type: Bacterial reverse mutation assay (AMES) esult: negative				
		Test Type: Result: ne	In vitro mammalian cell gene mutation test gative				
Geno	toxicity in vivo	cytogeneti Species: M	Nouse n Route: Ingestion				
Sodiu	im n-dodecyl sulfat	; :					
Geno	toxicity in vitro		Bacterial reverse mutation assay (AMES) ECD Test Guideline 471 gative				
		Test Type: Result: neg	In vitro mammalian cell gene mutation test gative				
Geno	toxicity in vivo	Species: M	n Route: Ingestion				
Magn	esium stearate:						
	toxicity in vitro	Result: neg	: In vitro mammalian cell gene mutation test gative Based on data from similar materials				
			Chromosome aberration test in vitro ECD Test Guideline 473 gative				
		Remarks:	Based on data from similar materials				
		Result: neg	Bacterial reverse mutation assay (AMES) gative Based on data from similar materials				
	nogenicity	- 11-11-1-1-1					
	assified based on av	allable information					
	<u>oonents:</u>						
Boce Speci	previr: es	: Mouse					
Applic	ation Route	: Oral					
Expos Dose	sure time	: 72 Weeks : 650 mg/kg	body weight				
Resul	t	: negative	, ,				

: Rat

Species



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E	Applicatic Exposure Dose Result	on Route time		Oral 104 Weeks 125 mg/kg body w negative	reight
S A E	Cellulose Species Applicatic Exposure Result	on Route	:	Rat Ingestion 72 weeks negative	
S A E N R	Species	n-dodecyl sulfate: on Route e time		Rat Ingestion 2 Years OECD Test Guide negative Based on data fro	line 453 m similar materials
S		ctive toxicity d of damaging fertilit <u>ents:</u>	y.		
	Bocepre				
	Effects or		:	Species: Rat, mal	'5 mg/kg body weight
				Species: Rat, fem	50 mg/kg body weight
E	Effects or	n fetal development	:	Test Type: Develor Species: Rabbit, r Application Route Developmental To Result: negative	nale and female
	Reproduc	ctive toxicity - As- t	:		adverse effects on sexual function and animal experiments.
	Cellulose Effects or		:	Test Type: One-g Species: Rat Application Route Result: negative	eneration reproduction toxicity study



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	Effects on fetal development		:	Test Type: Fertility Species: Rat Application Route Result: negative	//early embryonic development		
	Sodiur	n n-dodecyl sulfate:					
	Effects on fertility		:	Test Type: Two-generation reproduction toxicity study Species: Rat Application Route: Ingestion Method: OECD Test Guideline 416 Result: negative Remarks: Based on data from similar materials			
	Effects on fetal development		:	Test Type: Embryo-fetal development Species: Rat Application Route: Ingestion Result: negative Remarks: Based on data from similar materials			
	Magne	sium stearate:					
	Effects	on fertility	:	reproduction/deve Species: Rat Application Route Method: OECD Te Result: negative			
	Effects	on fetal development	:	Species: Rat Application Route Result: negative	o-fetal development : Ingestion on data from similar materials		

STOT-single exposure

Not classified based on available information.

STOT-repeated exposure

Not classified based on available information.

Repeated dose toxicity

Components:

Boceprevir:

Species NOAEL Application Route Exposure time Remarks		Monkey > 200 mg/kg Oral 365 d No significant adverse effects were reported
Species	:	Rat
NOAEL	:	75 mg/kg
LOAEL	:	100 mg/kg



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	ation Route	: Oral		
	ure time Organs	: 90 d : Testis, Prostate		
Specie		: Rat		
NOAE LOAEI		: 15 mg/kg		
	∟ ation Route	: 75 mg/kg : Oral		
	ure time	: 180 d		
	Organs	: Testis		
Specie		: Mouse		
NOAE		: 250 mg/kg		
	∟ ation Route	: 500 mg/kg : Oral		
	ure time	: 90 d		
	Organs	: Kidney		
Storek				
Starch		. Det		
Specie NOAE		: Rat : >= 2,000 mg/kg		
	ation Route	: Skin contact		
	ure time	: 28 Days		
Metho		: OECD Test Gu	deline 410	
Cellul	ose:			
Specie		: Rat		
NOAE		: >= 9,000 mg/kg		
	ation Route ure time	: Ingestion : 90 Days		
Sodiu	m n-dodecyl sulfate	;		
Specie	•	: Rat		
NOAE		: 488 mg/kg		
Applica	ation Route	: Ingestion		
	ure time	: 90 Days		
Remar	rks	: Based on data	rom similar materials	
-	esium stearate:			
Specie		: Rat		
NOAE		: > 100 mg/kg		
	ation Route ure time	: Ingestion : 90 Days		

Aspiration toxicity

Not classified based on available information.



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Ex	perience with human exp	osu	re	
<u>Cc</u>	omponents:			
Вс	oceprevir:			
Inç	gestion	:	Symptoms: He taste	adache, Gastrointestinal disturbance, bitter
SECTIO	ON 12. ECOLOGICAL INFO	ORN	IATION	
Ec	otoxicity			
<u>Cc</u>	omponents:			
То	oceprevir: xicity to algae/aquatic ants	:	mg/l Exposure time:	kirchneriella subcapitata (green algae)): > 9.5 72 h 9 Test Guideline 201
			mg/l Exposure time:	okirchneriella subcapitata (green algae)): 9.5 : 72 h 9 Test Guideline 201
To icit	xicity to fish (Chronic tox- ty)	:	Exposure time:	nales promelas (fathead minnow)): > 9 mg/l 28 d 9 Test Guideline 210
aq	xicity to daphnia and other uatic invertebrates (Chron- toxicity)	:	Exposure time:	ia magna (Water flea)): 7.2 mg/l : 21 d 9 Test Guideline 211
То	xicity to microorganisms	:		
	ellulose: xicity to fish	:	Exposure time:	latipes (Japanese medaka)): > 100 mg/l 48 h ed on data from similar materials
	dium n-dodecyl sulfate: xicity to fish	:	LC50 (Pimepha Exposure time:	ales promelas (fathead minnow)): 29 mg/l 96 h
То	xicity to daphnia and other	:	EC50 (Cerioda	phnia dubia (water flea)): 5.55 mg/l



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	aquatic	invertebrates		Exposure time: 48	5 h		
	Toxicity to algae/aquatic plants		:	ErC50 (Desmodes Exposure time: 72	smus subspicatus (green algae)): > 120 mg/l ? h		
				NOEC (Desmodes Exposure time: 72	smus subspicatus (green algae)): 30 mg/l ! h		
	Toxicity icity)	to fish (Chronic tox-	:	NOEC (Pimephale mg/l Exposure time: 42	es promelas (fathead minnow)): >= 1.357 ? d		
	aquatic	to daphnia and other invertebrates (Chron-	:	NOEC (Ceriodaph Exposure time: 7 o	nnia dubia (water flea)): 0.88 mg/l d		
	ic toxicity) Toxicity to microorganisms Magnesium stearate: Toxicity to fish Toxicity to daphnia and other aquatic invertebrates		:	EC50: 135 mg/l Exposure time: 3 l	h		
			:	 LC50 (Leuciscus idus (Golden orfe)): > 100 mg/l Exposure time: 48 h Method: DIN 38412 Remarks: Based on data from similar materials 			
			:	 EL50 (Daphnia magna (Water flea)): > 1 mg/l Exposure time: 47 h Test substance: Water Accommodated Fraction Method: Directive 67/548/EEC, Annex V, C.2. Remarks: Based on data from similar materials No toxicity at the limit of solubility. 			
	Toxicity plants	∕ to algae/aquatic	:	mg/l Exposure time: 72 Test substance: W Method: OECD Te	Vater Accommodated Fraction est Guideline 201 on data from similar materials		
				mg/l Exposure time: 72 Test substance: W Method: OECD Te	Vater Accommodated Fraction		
	Toxicity	to microorganisms	:	Exposure time: 16 Test substance: V	nas putida): > 100 mg/l 5 h Vater Accommodated Fraction on data from similar materials		



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Persis	stence and degradabil	ity			
Comp	onents:				
Bocer	previr:				
Biode	gradability	:	Result: Not readil Biodegradation: (Exposure time: 28	0.6 %	
Cellul	ose:				
Biode	gradability	:	Result: Readily bi	iodegradable.	
Sodiu	m n-dodecyl sulfate:				
	gradability	:	Result: Readily bi Biodegradation: Exposure time: 28 Method: OECD T	95 %	
Magn	esium stearate:				
-	gradability	:	Result: Not biode Remarks: Based	gradable on data from similar materials	
Bioac	cumulative potential				
<u>Comp</u>	onents:				
Bocep	previr:				
Bioaco	cumulation	:	Bioconcentration	s macrochirus (Bluegill sunfish) factor (BCF): 2.6 est Guideline 305	
	on coefficient: n- bl/water	:	log Pow: 3.18		
Partitio	m n-dodecyl sulfate: on coefficient: n- ol/water	:	log Pow: 0.83		
Partitio	esium stearate: on coefficient: n- bl/water	:	log Pow: > 4		
Mobil	ity in soil				
<u>Comp</u>	onents:				
Bocer	previr:				
Distrib	ution among environ- l compartments	:		est Guideline 106	
	adverse effects ta available				



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SECTION 13. DISPOSAL CONSIDERATIONS

Disposal	methods
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Waste from residues	:	Do not dispose of waste into sewer. Dispose of in accordance with local regulations.
Contaminated packaging	:	Empty containers should be taken to an approved waste handling site for recycling or disposal. If not otherwise specified: Dispose of as unused product.

SECTION 14. TRANSPORT INFORMATION

International Regulations

UNRTDG Not regulated as a dangerous good

IATA-DGR Not regulated as a dangerous good

IMDG-Code Not regulated as a dangerous good

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

Domestic regulation

NOM-002-SCT Not regulated as a dangerous good

Special precautions for user

Not applicable

SECTION 15. REGULATORY INFORMATION

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

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

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

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

SECTION 16. OTHER INFORMATION

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Full text of other abbreviations

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

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

Sources of key data used to compile the Material Safety Data Sheet

: Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agency, http://echa.europa.eu/

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

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