

Version 7.0	Revision Date: 28.09.2024		S Number: 433-00024	Date of last issue: 26.09.2023 Date of first issue: 09.10.2014
SECTION	1. IDENTIFICATION			
Produ	uct identifier	:	Raltegravir Pedi	atric Granules Formulation
Manu	ifacturer or supplier's	s deta	ils	
Comp	bany	:	MSD	
Addre	ess	:	nº 1500 – Distrite	dador Antônio Loureiro Ramos, o Industrial - MG, Brazil 39404-620
Telep	hone	:	+55 (38) 3229 7	000
Emer	gency telephone	:	+55 (38) 3201 5	670
E-ma	il address	:	EHSDATASTEV	VARD@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 in accordance with ABNT NBR 14725 Standard

Serious eye damage	:	Category 1
Reproductive toxicity	:	Category 2
Specific target organ toxicity - single exposure	:	Category 3
Short-term (acute) aquatic hazard	:	Category 3

GHS label elements in accordance with ABNT NBR 14725 Standard

Hazard pictograms	
Signal Word	: Danger
Hazard Statements	 H318 Causes serious eye damage. H335 May cause respiratory irritation. H361d Suspected of damaging the unborn child. H402 Harmful to aquatic life.



Version 7.0	Revision Date: 28.09.2024	SDS Number: 20433-00024	Date of last issue: 26.09.2023 Date of first issue: 09.10.2014
Preca	utionary Statements	P261 Avoid bre P271 Use only P273 Avoid rele	outdoors or in a well-ventilated area. ease to the environment. tective gloves/ protective clothing/ eye protec-
		and keep comfo doctor if you fee P305 + P351 + water for severa and easy to do. CENTER/ docto	P338 + P310 IF IN EYES: Rinse cautiously with al minutes. Remove contact lenses, if present Continue rinsing. Immediately call a POISON
		Storage: P405 Store lock	ked up.

Other hazards which do not result in classification

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
0000000000			TVII/(COLO

Components

Chemical name	CAS-No.	Classification	Concentration (% w/w)
Raltegravir	871038-72-1	Acute Tox. (Oral), 5 Eye Dam., 1 Repr., 2 STOT SE, 3 Aquatic Acute, 3	>= 20 -< 25
Cellulose	9004-34-6		>= 20 -< 30
Magnesium stearate	557-04-0		>= 1 -< 5
Ammonium hydroxide	1336-21-6	Acute Tox. (Oral), 4 Skin Corr., 1B Eye Dam., 1 Aquatic Acute, 1 Aquatic Chronic, 2	>= 0,1 -< 0,25

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.

SAFETY DATA SHEET



Raltegravir Pediatric Granules Formulation

Version 7.0	Revision Date: 28.09.2024		9S Number: 433-00024	Date of last issue: 26.09.2023 Date of first issue: 09.10.2014	
If inhaled		:	If inhaled, remove Get medical atter		
In ca	ase of skin contact	:	In case of contact of water. Remove contamin Get medical atter Wash clothing be	nated clothing and shoes.	
In case of eye contact		:	In case of contact for at least 15 min If easy to do, rem	t, immediately flush eyes with plenty of water	
If swallowed		:	If swallowed, DO NOT induce vomiting. Get medical attention. Rinse mouth thoroughly with water.		
	t important symptoms effects, both acute and yed	:			
Prot	ection of first-aiders	:	First Aid respond and use the recor	ers should pay attention to self-protection, mmended personal protective equipment al for exposure exists (see section 8).	
Note	es to physician	:		cally 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. Exposure to combustion products may be a hazard to health.
Hazardous combustion prod- ucts	:	Carbon oxides Nitrogen oxides (NOx) Fluorine compounds Metal oxides
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 do so. Evacuate area.
Special protective equipment for fire-fighters	:	In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.



7.0	28.09.2024		433-00024	Date of first issue: 09.10.2014
BECTION	6. ACCIDENTAL RELE	A5	E MEASURES	
tive e	onal precautions, protec- equipment and emer- y procedures	:	Follow safe har	rotective equipment. Indling advice (see section 7) and personal Indext provide the section 8).
Envir	onmental precautions	:	Prevent further Retain and disp	o the environment. leakage or spillage if safe to do so. oose of contaminated wash water. is should be advised if significant spillages ained.
	ods and materials for ainment and cleaning up	:	over the area to Add excess liqu Soak up with in Avoid dispersal with compresse Dust deposits a surfaces, as the released into th Clean up remain absorbent. Local or national disposal of this employed in the determine whic Sections 13 an	with absorbents and place a damp covering o minimize entry of the material into the air. uid to allow the material to enter into solution. ert absorbent material. I of dust in the air (i.e., clearing dust surfaces ed air). should not be allowed to accumulate on ese may form an explosive mixture if they are ne atmosphere in sufficient concentration. ining materials from spill with suitable al regulations may apply to releases and material, as well as those materials and items e cleanup of releases. You will need to h regulations are applicable. d 15 of this SDS provide information regarding national requirements.
SECTION	7. HANDLING AND ST	OR	AGE	
Tech	nical measures	:	causing an exp	/ may accumulate and ignite suspended dust losion. ate precautions, such as electrical grounding

		causing an explosion.
		Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres.
Local/Total ventilation	:	If sufficient ventilation is unavailable, use with local exhaust ventilation.
Advice on safe handling	:	Avoid breathing dust. Do not swallow.
		Do not get in eyes.
		Avoid prolonged or repeated contact with skin.
		Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure assessment
		Keep container tightly closed.
		Already sensitized individuals, and those susceptible
		to asthma, allergies, chronic or recurrent respiratory disease, should consult their physician regarding working with respiratory irritants or sensitizers. Minimize dust generation and accumulation. Keep container closed when not in use.
		Keep away from heat and sources of ignition.



Version 7.0	Revision Date: 28.09.2024	SDS Number: 20433-00024	Date of last issue: 26.09.2023 Date of first issue: 09.10.2014			
Hyg	iene measures	Take care to p environment.	onary measures against static discharges. revent spills, waste and minimize release to the chemical is likely during typical use, provide eye			
		flushing systems and safety showers close to the working place. When using do not eat, drink or smoke. Wash contaminated clothing before re-use.				
Con	ditions for safe storage	 Keep in properly labeled containers. Store locked up. Keep tightly closed. Keep in a cool, well-ventilated place. 				
Mate	erials to avoid		dance with the particular national regulations. ith the following product types: ig agents			

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Raltegravir	871038-72-1	TWA	1000 µg/m3 (OEB 1)	Internal
Cellulose	9004-34-6	TWA	10 mg/m ³	ACGIH
Magnesium stearate	557-04-0	TWA (Inhalable particulate matter)	10 mg/m ³	ACGIH
		TWA (Respirable particulate matter)	3 mg/m³	ACGIH
Ammonium hydroxide	1336-21-6	TWA	25 ppm (Ammonia)	ACGIH
		STEL	35 ppm (Ammonia)	ACGIH

Ingredients with workplace control parameters

Engineering measures

: 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 work area (i.e., there is no leakage from the equipment). If sufficient ventilation is unavailable, use with local exhaust ventilation.

Personal protective equipment

Respiratory protection	:	If adequate local exhaust ventilation is not available or exposure assessment demonstrates exposures outside the recommended guidelines, use respiratory protection.
Filter type Hand protection	:	Particulates type



Vers 7.0	sion	Revision Date: 28.09.2024	-	S Number: 433-00024	Date of last issue: 26.09.2023 Date of first issue: 09.10.2014			
	Mat	erial	:	Chemical-resistar	nt gloves			
	Remarks		:	Choose gloves to protect hands against chemicals dependir on the concentration specific to place of work. Breakthrough time is not determined for the product. Change gloves often! 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 pro	otection	:	Chemical resistant If splashes are like	g personal protective equipment: It goggles must be worn. ely to occur, wear:			
	Skin and body protection		:	Face-shield 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).				
SEC	TION 9	. PHYSICAL AND CHE	EMI		S			
	Physica	al state	:	powder				
	Color		:	off-white				
	Odor		:	odorless				
	Odor T	hreshold	:	No data available	9			
	рН		:	No data available	9			
	Melting	point/freezing point	:	No data available	9			
	Initial b range	oiling point and boiling	:	No data available	e			
	Flash p	point	:	No data available	9			
	Evapor	ation rate	:	No data available	9			
	Flamm	ability (solid, gas)	:	May form explosi handling or other	ive dust-air mixture during processing, means.			
	Flamm	ability (liquids)	:	No data available	9			
		explosion limit / Upper bility limit	:	No data available	e			
		explosion limit / Lower bility limit	:	No data available	9			
	Vapor p	oressure	:	No data available	9			
	Relativ	e vapor density	:	No data available	9			



Vers 7.0	sion	Revision Date: 28.09.2024		S Number: 433-00024	Date of last issue: 26.09.2023 Date of first issue: 09.10.2014
	Relative	e density	:	No data available	9
	Solubili Wat	ty(ies) er solubility	:	No data available	9
	octanol		:	No data available	
	-	hition temperature	:	No data available	
	Viscosi Visc	ty cosity, kinematic	:	No data available	9
	Explosi	ve properties	:	Not explosive	
	Oxidizir	ng properties	:	The substance o	r mixture is not classified as oxidizing.
	Molecu	lar weight	:	No data available	9
	Particle Particle	e characteristics 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	:	

SECTION 11. TOXICOLOGICAL INFORMATION

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

Acute toxicity

Not classified based on available information.

Product:

Acute oral toxicity	:	Acute toxicity estimate: > 5.000 mg/kg
		Method: Calculation method



ersion D	Revision Date: 28.09.2024	SDS Number 20433-00024				
Com	oonents:					
Ralte	gravir:					
Acute	oral toxicity	: LD50 (Mo	ouse, male and female): > 2.000 mg/kg			
Cellu						
Acute	oral toxicity	: LD50 (Ra	t): > 5.000 mg/kg			
Acute	inhalation toxicity	Exposure	t): > 5,8 mg/l time: 4 h psphere: dust/mist			
Acute	e dermal toxicity	: LD50 (Ra	bbit): > 2.000 mg/kg			
Magn	esium stearate:					
	oral toxicity	Method: C Assessme icity	t): > 2.000 mg/kg DECD Test Guideline 423 ent: The substance or mixture has no acute oral to Based on data from similar materials			
Acute	e dermal toxicity		LD50 (Rabbit): > 2.000 mg/kg Remarks: Based on data from similar materials			
Amm	onium hydroxide:					
Acute	oral toxicity	: LD50 (Ra	t): 350 mg/kg			
Acute	inhalation toxicity	: Assessme	ent: Corrosive to the respiratory tract.			
-	corrosion/irritation	ailable information				
	oonents:					
Ralte	gravir:					
Speci	-	: Rabbit				
Resu		: No skin in	ritation			
Magn	esium stearate:					
Speci		: Rabbit				
Resu		: No skin in	ritation data from similar materials			
Rema	aiks	: Based on	uala nom similar materials			
	onium hydroxide:					
Speci		: Rabbit	often O minutes to 4 hours of our of a			
Resu	-		after 3 minutes to 1 hour of exposure national or regional regulation.			
Rema	arve and a second se	· Racad on				

Serious eye damage/eye irritation

Causes serious eye damage.



Version 7.0	Revision Date: 28.09.2024	SDS Number: 20433-00024	Date of last issue: 26.09.2023 Date of first issue: 09.10.2014
<u>Com</u>	ponents:		
Ralte	gravir:		
Speci	-	: Bovine cornea	
Resu	lt	: Severe irritation	n
Magn	nesium stearate:		
Speci		: Rabbit	
Resul Rema		: No eye irritation : Based on data	n from similar materials
A			
Resu	onium hydroxide:	· Irrovaraible offe	acts on the eve
Resu		: Irreversible effe : Based on skin	
_			
•	iratory or skin sens	itization	
	sensitization	cilchle information	
	lassified based on av		
-	iratory sensitization lassified based on av		
Com	ponents:		
Ralte	gravir:		
Test	Туре	: Local lymph no	de assay (LLNA)
Speci		: Mouse	
Resu	It	: negative	
Magn	nesium stearate:		
Test	Туре	: Maximization T	est
Route	es of exposure	: Skin contact	
Speci Metho		: Guinea pig : OECD Test Gu	idaliaa 406
Resu		: negative	
Rema		0	from similar materials
Germ	cell mutagenicity		
Not cl	lassified based on av	ailable information.	
<u>Comp</u>	ponents:		
Ralte	gravir:		
Geno	toxicity in vitro		erse mutation assay
		Result: negativ	e
		Test Type: Alka	aline elution assay
		Test system: ra	
		Result: negativ	
		Test Turner Chr	omosomal aberration
) Test Guideline 473
		9 / 18	



ersion)	Revision Date: 28.09.2024	SDS Number 20433-00024	
I		Result: ne	egative
Geno	toxicity in vivo	: Test Type Species: Result: ne	
			e: Chromosomal aberration DECD Test Guideline 475 egative
Cellu	lose:		
Geno	toxicity in vitro	: Test Type Result: ne	e: Bacterial reverse mutation assay (AMES) egative
		Test Type Result: ne	e: In vitro mammalian cell gene mutation test egative
Geno	toxicity in vivo	cytogene Species:	Mouse on Route: Ingestion
Magn	esium stearate:		
	toxicity in vitro	Result: ne	e: In vitro mammalian cell gene mutation test egative Based on data from similar materials
		Method: (Result: ne	e: Chromosome aberration test in vitro DECD Test Guideline 473 egative Based on data from similar materials
		Test Type Result: ne	e: Bacterial reverse mutation assay (AMES)
		Remarks	Based on data from similar materials
	onium hydroxide:	- ·-	
Geno	toxicity in vitro	: Test Type Result: ne	e: Bacterial reverse mutation assay (AMES) egative
	nogenicity assified based on av	ailable informatio	٦.
<u>Comp</u>	oonents:		
Ralte	gravir:		
Speci	es sure time	: Mouse, m : 104 week : negative	nale and female



rsion)	Revision Date: 28.09.2024		0S Number: 433-00024	Date of last issue: 26.09.2023 Date of first issue: 09.10.2014
	es cation Route sure time	:	Rat Ingestion 72 weeks negative	
Suspe	oductive toxicity ected of damaging the u conents:	nbo	rn child.	
	gravir:			
	s on fertility	:	Species: Rat, ma Application Route	
Effect	s on fetal development	:	Teratogenicity: L	e: Oral Maternal: NOAEL: >= 600 mg/kg body weig DAEL F1: 300 mg/kg body weight etal malformations.
			weight	Maternal: NOAEL: >= 1.000 mg/kg body OAEL: >= 1.000 mg/kg body weight
Repro sessm	oductive toxicity - As- nent	:	Some evidence of animal experiment	of adverse effects on development, based on hts.
Cellul	lose:			
	s on fertility	:	Test Type: One-o Species: Rat Application Route Result: negative	generation reproduction toxicity study e: Ingestion
Effect	s on fetal development	:	Test Type: Fertili Species: Rat Application Route Result: negative	ty/early embryonic development e: Ingestion
Maan	esium stearate:			
	s on fertility	:	reproduction/dev Species: Rat Application Route Method: OECD T Result: negative	ined repeated dose toxicity study with the elopmental toxicity screening test e: Ingestion fest Guideline 422 on data from similar materials



Version 7.0	Revision Date: 28.09.2024		DS Number: 433-00024	Date of last issue: 26.09.2023 Date of first issue: 09.10.2014
Effe	cts on fetal development	:	Species: Rat Application Route Result: negative	vo-fetal development :: Ingestion on data from similar materials
	T-single exposure cause respiratory irritatio	on.		
Con	nponents:			
Rou Targ	egravir: tes of exposure get Organs essment		Inhalation Respiratory Tract May cause respira	
Not)T-repeated exposure classified based on availa	able	information.	
-	eated dose toxicity			
	<u>nponents:</u>			
Spe NOA Appl Expo			Dog 90 mg/kg Oral 371 d Vomiting	
Exp	\EL		Rat 30 mg/kg 120 mg/kg Oral 189 d Stomach	
Exp	\EL		Mouse 50 mg/kg 500 mg/kg Oral 14 Weeks Stomach	
Exp	AEL		Rat 50 mg/kg 200 mg/kg Oral 8 Weeks Stomach	
Cell Spec	ulose: cies	:	Rat	



Version 7.0	n Revision Date: 28.09.2024		DS Number: 433-00024	Date of last issue: 26.09.2023 Date of first issue: 09.10.2014					
Ap	DAEL oplication Route posure time	: : :	>= 9.000 mg/kg Ingestion 90 Days						
Sp NC Ap Ex	agnesium stearate: becies DAEL oplication Route posure time emarks	:	Rat > 100 mg/kg Ingestion 90 Days Based on data fro	m similar materials					
No Ex	Aspiration toxicity Not classified based on available information. Experience with human exposure								
	omponents:								
	Iltegravir: gestion	:	Symptoms: Nause irritation	ea, Diarrhea, Headache, Fever, Rash, Skin					
SECTIO	ON 12. ECOLOGICAL INFO	DRI	MATION						
Fo	otoxicity								
	omponents:								
	altegravir:								
	exicity to fish	:	LC50 (Pimephale: Exposure time: 96 Method: OECD Te						
			LC50 (Cyprinodor mg/l Exposure time: 96 Method: OECD To						
	xicity to daphnia and other uatic invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: OECD Te						
	xicity to algae/aquatic ants	:	EC50 (Pseudokiro Exposure time: 96 Method: OECD Te						
			NOEC (Pseudokir mg/l Exposure time: 96 Method: OECD Te						
To icit	exicity to fish (Chronic tox- ty)	:	NOEC (Pimephale Exposure time: 33 Method: OECD Te						



Versio 7.0	on	Revision Date: 28.09.2024		9S Number: 433-00024	Date of last issue: 26.09.2023 Date of first issue: 09.10.2014
a		y to daphnia and other invertebrates (Chron- ty)	:	NOEC (Daphnia n Exposure time: 21 Method: OECD Te	
т	Toxicity to microorganisms		:	EC50: > 1.000 mg Exposure time: 3 I Test Type: Respir Method: OECD Te	า ation inhibition
				NOEC: 1.000 mg/l Exposure time: 3 h Test Type: Respiration inhibition Method: OECD Test Guideline 209	
	ellulo				
		r to fish	:	Exposure time: 48	pes (Japanese medaka)): > 100 mg/l h on data from similar materials
	lagne	sium stearate:			
	-	v to fish	:	Exposure time: 48 Method: DIN 3841	
		to daphnia and other invertebrates	:	Exposure time: 47 Test substance: W Method: Directive	/ater Accommodated Fraction 67/548/EEC, Annex V, C.2. on data from similar materials
	oxicity lants	v to algae/aquatic	:	mg/l Exposure time: 72 Test substance: W Method: OECD Te	/ater Accommodated Fraction est Guideline 201 on data from similar materials
				mg/l Exposure time: 72 Test substance: W Method: OECD Te	ater Accommodated Fraction
Τ	oxicity	to microorganisms	:	Exposure time: 16 Test substance: W	nas putida): > 100 mg/l h /ater Accommodated Fraction on data from similar materials



Version 7.0	Revision Date: 28.09.2024	-	9S Number: 433-00024	Date of last issue: 26.09.2023 Date of first issue: 09.10.2014	
Amm	nonium hydroxide:				
	Toxicity to fish		: LC50 (Oncorhynchus mykiss (rainbow trout)): 0,89 m Exposure time: 96 h Test substance: Neutralized product		
	city to daphnia and other tic invertebrates	:	EC50 (Daphnia m Exposure time: 48	agna (Water flea)): 101 mg/l h	
	actor (Acute aquatic tox-	:	1		
icity) Toxic icity)	city to fish (Chronic tox-	:	Exposure time: 73	chus mykiss (rainbow trout)): 0,0135 mg/l d leutralized product	
aqua	Toxicity to daphnia and other aquatic invertebrates (Chron- ic toxicity)		NOEC (Daphnia magna (Water flea)): 0,961 mg/l Exposure time: 21 d Remarks: Based on data from similar materials		
Pers	Persistence and degradability				
<u>Com</u>	ponents:				
Ralte	egravir:				
Biode	egradability	:	Result: rapidly deg Biodegradation: 5 Exposure time: 9 Method: OECD Te	50 %	
Stabi	ility in water	:	Hydrolysis: < 10 % Method: OECD Te		
Cellu	llose:				
	egradability	:	Result: Readily bio	odegradable.	
II Maqi	nesium stearate:				
	egradability	:	Result: Not biode Remarks: Based o	gradable on data from similar materials	
Bioa	ccumulative potential				
<u>Com</u>	ponents:				
Parti	egravir: tion coefficient: n- nol/water	:	log Pow: -0,328		
Parti	nesium stearate: tion coefficient: n- nol/water	:	log Pow: > 4		
	ility in soil ata available				



/ersion 7.0	Revision Date: 28.09.2024	SDS Number: 20433-00024	Date of last issue: 26.09.2023 Date of first issue: 09.10.2014				
	r adverse effects ata available						
SECTION	13. DISPOSAL CON	SIDERATIONS					
Dispo	osal methods						
Waste	e from residues		e of waste into sewer.				
Conta	aminated packaging	: Empty contain handling site for	 Dispose of in accordance with local regulations. 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 INI	FORMATION					
Interr	national Regulations						
UNRT Not re	FDG egulated as a dangerc	ous good					
IATA Not re	-DGR egulated as a dangerd	ous good					
	IMDG-Code Not regulated as a dangerous good						
	sport in bulk accordi pplicable for product a	-	RPOL 73/78 and the IBC Code				
Dome	estic regulation						
ANTT Not re	r egulated as a dangero	ous good					
•	ial precautions for u pplicable	ser					
SECTION	15. REGULATORY I	NFORMATION					
Safet mixtu		nmental regulations/	legislation specific for the substance or				
Natio (LINA	•	ic Agents for Humans	- : Not applicable				
Drozil	. List of chemicals cor	ntrolled by the Federal	: Not applicable				
Police							
Police The in	e ngredients of this pr	•	n the following inventories:				
Police	e ngredients of this pr	oduct are reported in : not determined	-				
Police The in	e ngredients of this pr	•	1				

SECTION 16. OTHER INFORMATION

Data Sheet



Raltegravir Pediatric Granules Formulation

Versio 7.0	on Revision Date: 28.09.2024		DS Number: 433-00024	Date of last issue: 26.09.2023 Date of first issue: 09.10.2014
-	Revision Date Date format	:	28.09.2024 dd.mm.yyyy	
F	Further information			
Sources of key data used to : compile the Material Safety		Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agen-		

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

cy, http://echa.europa.eu/

Full text of other abbreviations

ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)
ACGIH / TWA ACGIH / STEL		8-hour, time-weighted average Short-term exposure limit

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

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified



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in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

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