

Version	Revision Date: 2024/09/28	SDS Number:	Date of last issue: 2024/04/06
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#### **1. PRODUCT AND COMPANY IDENTIFICATION**

Chemical product name	:	Raltegravir Pediatric Granules Formulation
Supplier's company name, ac Company name of supplier		<b>ess and phone number</b> MSD
Address	:	Kumagaya, Saitama Prefecture , Xicheng 810 MSD Co., Ltd. Menuma factory
Telephone	:	048-588-8411
E-mail address	:	EHSDATASTEWARD@msd.com
Emergency telephone number	:	+1-908-423-6000

#### Recommended use of the chemical and restrictions on use

Recommended use	:	Pharmaceutical
Restrictions on use	:	Not applicable

#### 2. HAZARDS IDENTIFICATION

GHS classification of chemic Serious eye damage/eye irri- tation		
Reproductive toxicity	:	Category 2
Specific target organ toxicity - single exposure	:	Category 3
Short-term (acute) aquatic hazard	:	Category 3
GHS label elements		
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.



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Preca	autionary statements	P202 Do not h and understoo P261 Avoid bi P271 Use only P273 Avoid re	reathing dust. y outdoors or in a well-ventilated area. elease to the environment. otective gloves/ protective clothing/ eye protec-
		and keep com doctor if you f P305 + P351 water for seve and easy to d CENTER/ doc	+ P338 + P310 IF IN EYES: Rinse cautiously with eral minutes. Remove contact lenses, if present o. Continue rinsing. Immediately call a POISON
		<b>Storage:</b> P405 Store lo	cked up.
		<b>Disposal:</b> P501 Dispose disposal plant	of contents/ container to an approved waste
Othe	r hazards which do no	t result in classific	ation
	rtant symptoms and out- of the emergency as- d	the skin.	lust can cause mechanical irritation or drying of losive dust-air mixture during processing, han- means.
B. COMPO	OSITION/INFORMATIO	N ON INGREDIENT	 S
Subs	tance / Mixture	: Mixture	
Com	ponents		

Chemical name	CAS-No.	Concentration (% w/w)	ENCS No.
Raltegravir	871038-72-1	>= 20 - < 25	
Cellulose	9004-34-6	>= 20 - < 30	
Magnesium stearate	557-04-0	>= 1 - < 10	2-611
Ammonium hydroxide	1336-21-6	>= 0.1 - < 1	1-314

#### 4. FIRST AID MEASURES

General advice

: In the case of accident or if you feel unwell, seek medical ad-



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			vice immediat When sympto	ely. ms persist or in all cases of doubt seek medical
lf inha	aled	:	advice.	ove to fresh air.
	se of skin contact		Get medical a	ttention.
in cas	se of skin contact	•	of water. Remove conta Get medical a Wash clothing	
In cas	se of eye contact	:	In case of con for at least 15 If easy to do, 1	tact, immediately flush eyes with plenty of water minutes. remove contact lens, if worn.
lf swa	allowed	:	If swallowed, I Get medical a	ttention immediately. DO NOT induce vomiting. ttention. horoughly with water.
	important symptoms ffects, both acute and ed	:	Causes seriou May cause res Suspected of	is eye damage. spiratory irritation. damaging the unborn child. lust can cause mechanical irritation or drying of
Prote	ction of first-aiders	:	First Aid respo and use the re	onders should pay attention to self-protection, commended personal protective equipment ntial for exposure exists (see section 8).
Notes	s to physician	:		natically and supportively.
5. FIREFI	GHTING MEASURES			
Suita	ble extinguishing media	:	Water spray Alcohol-resista Carbon dioxid Dry chemical	
Unsu media	itable extinguishing a	:	None known.	
Spec fightir	ific hazards during fire- ng	:	concentrations potential dust	ing dust; fine dust dispersed in air in sufficient s, and in the presence of an ignition source is a explosion hazard. ombustion products may be a hazard to health.
Haza ucts	rdous combustion prod-	:	Carbon oxides Nitrogen oxide Fluorine comp Metal oxides	es (NOx)
Spec ods	ific extinguishing meth-	:	cumstances a Use water spr	ning measures that are appropriate to local cir- nd the surrounding environment. ay to cool unopened containers. maged containers from fire area if it is safe to do



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			Evacuate area.	
	cial protective equipment refighters	:		re, wear self-contained breathing apparatus. otective equipment.
6. ACCID	ENTAL RELEASE MEA	SUF	RES	
tive e	onal precautions, protec- equipment and emer- cy procedures	:	Follow safe hand	otective equipment. dling advice (see section 7) and personal pro nt recommendations (see section 8).
Envi	ronmental precautions	:	Prevent further le Retain and dispo	the environment. eakage or spillage if safe to do so. ose of contaminated wash water. should be advised if significant spillages ned.
	nods and materials for ainment and cleaning up	:	over the area to Add excess liqui Soak up with ine Avoid dispersal of with compressed Dust deposits sh es, as these may leased into the a Clean up remain bent. Local or national posal of this mat employed in the mine which regu Sections 13 and	th absorbents and place a damp covering minimise entry of the material into the air. d to allow the material to enter into solution. rt absorbent material. of dust in the air (i.e., clearing dust surfaces d air). nould not be allowed to accumulate on surface form an explosive mixture if they are re- tmosphere in sufficient concentration. ing materials from spill with suitable absor- regulations may apply to releases and dis- erial, as well as those materials and items cleanup of releases. You will need to deter- lations are applicable. 15 of this SDS provide information regarding ational requirements.

#### 7. HANDLING AND STORAGE

Handling

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	:	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



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	Avoidance of contact Hygiene measures		essment leep container tig lready sensitised b asthma, allergid hould consult the ory irritants or se linimize dust ger leep container cl deep away from h ake precautiona ake care to prev nvironment. Dxidizing agents exposure to che ushing systems lace.	d individuals, and those susceptible es, chronic or recurrent respiratory disease, eir physician regarding working with respira-
Stora	age			
	rials to avoid	S K S : D	tore locked up. eep tightly close eep in a cool, we tore in accordan	ell-ventilated place. Ice with the particular national regulations. the following product types:
Pack	aging material		0 0	al: None known.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

# Threshold limit value and permissible exposure limits for each component in the work environment

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Concentra- tion standard / Permissible con- centration	Basis
Raltegravir	871038-72-1	TWA	1000 µg/m3 (OEB 1)	Internal
Cellulose	9004-34-6	TWA	10 mg/m3	ACGIH
Magnesium stearate	557-04-0	TWA (Inhal- able particu- late matter)	10 mg/m3	ACGIH
		TWA (Res- pirable par- ticulate mat- ter)	3 mg/m3	ACGIH
Ammonium hydroxide	1336-21-6	TWA	25 ppm (Ammonia)	ACGIH



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II				STEL	35 ppm (Ammonia)	ACGIH		
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 de- signed 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.					
Perse	onal protective equip	ment						
Respiratory protection Filter type Hand protection		:	If adequate local exhaust ventilation is not available or expo- sure assessment demonstrates exposures outside the rec- ommended guidelines, use respiratory protection. Particulates type					
M	aterial	:	Chemical-resistant gloves					
Remarks		:	Choose gloves to protect hands against chemicals depending on the concentration and quantity of the hazardous sub- stance and 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 p	protection	:	Wear the following personal protective equipment: Chemical resistant goggles must be worn. If splashes are likely to occur, wear: Face-shield					
Skin a	and body protection	:	Select appropresistance da potential. Skin contact	ta and an asse	e clothing based on ch essment of the local ex ed by using impervious ots, etc).	posure		
PHYSIC	CAL AND CHEMICAL	PRO	PERTIES					
Physi	cal state	:	powder					
			- <b>ff</b> - 1.1(-					

Colour	:	off-white
Odour	:	odourless
Odour Threshold	:	No data available
Melting point/freezing point	:	No data available
Boiling point, initial boiling	:	No data available



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poi	nt and boiling range			
Fla	mmability (solid, gas)	:	May form explosi dling or other me	ve dust-air mixture during processing, han- ans.
Fla	mmability (liquids)	:	No data available	9
	ver explosion limit and uppe Upper explosion limit / Up- per flammability limit			
	Lower explosion limit / Lower flammability limit	:	No data available	
Fla	sh point	:	No data available	)
De	composition temperature	:	No data available	)
рH		:	No data available	)
Eva	aporation rate	:	No data available	)
Au	to-ignition temperature	:	No data available	)
	cosity Viscosity, kinematic	:	No data available	9
	ubility(ies) Water solubility	:	No data available	9
	rtition coefficient: n- anol/water	:	No data available	
Va	pour pressure	:	No data available	)
De	nsity and / or relative densit Relative density	у :	No data available	)
Re	lative vapour density	:	No data available	)
Ex	plosive properties	:	Not explosive	
Ox	idizing properties	:	The substance or	mixture is not classified as oxidizing.
Мо	lecular weight	:	No data available	)
Pa	rticle characteristics Particle size	:	No data available	





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	ivity ical stability bility of hazardous reac-	:	Stable under n May form expl dling or other r	as a reactivity hazard. ormal conditions. osive dust-air mixture during processing, han- neans. strong oxidizing agents.
Incom	tions to avoid patible materials dous decomposition cts	::	Heat, flames a Avoid dust forr Oxidizing ager No hazardous	nation.
1. TOXIC	OLOGICAL INFORMAT	101	I	
Inform expos	nation on likely routes of sure	:	Inhalation Skin contact Ingestion Eye contact	
Acute	e toxicity			
Not cl	assified based on availa	ble	information.	
<u>Comp</u>	oonents:			
	gravir:			
Acute	oral toxicity	:	LD50 (Mouse, r	male and female): > 2,000 mg/kg
Cellu	lose:			
Acute	oral toxicity	:	LD50 (Rat): > 5	,000 mg/kg
Acute	inhalation toxicity	:	LC50 (Rat): > 5 Exposure time: Test atmosphere	4 h
Acute	dermal toxicity	:	LD50 (Rabbit):	> 2,000 mg/kg
II Magn	esium stearate:			
	oral toxicity	:	Assessment: Thicity	2,000 mg/kg Test Guideline 423 he substance or mixture has no acute oral tox rd on data from similar materials
Acute	dermal toxicity	:	LD50 (Rabbit): Remarks: Base	> 2,000 mg/kg d on data from similar materials
- 4	a u trans la colucio da c			
Amm	onium hydroxide:			
	oral toxicity	:	LD50 (Rat): 350	) mg/kg



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П					
-	corrosion/irritation assified based on ava	ailable inform	nation		
	oonents:				
	gravir:				
Speci Resul	es	: Rabb : No s	oit kin irritatio	n	
Magn	esium stearate:				
Speci Resul Rema	t	<ul><li>Rabbit</li><li>No skin irritation</li><li>Based on data from similar materials</li></ul>			
Amm	onium hydroxide:				
Speci Resul Rema	t	<ul> <li>Rabbit</li> <li>Corrosive after 3 minutes to 1 hour of exposur</li> <li>Based on national or regional regulation.</li> </ul>			
	us eye damage/eye				
	es serious eye damao <b>conents:</b>	je.			
	gravir:				
Speci Resul	es		<ul><li>Bovine cornea</li><li>Severe irritation</li></ul>		
Magn	esium stearate:				
Speci Resul Rema	t	: Noe	<ul> <li>Rabbit</li> <li>No eye irritation</li> <li>Based on data from similar materials</li> </ul>		
Amm	onium hydroxide:				

#### Respiratory or skin sensitisation

#### Skin sensitisation

Not classified based on available information.

#### **Respiratory sensitisation**

Not classified based on available information.



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<u>Com</u>	ponents:		
Ralte	gravir:		
Test	-	: Local lymph	node assay (LLNA)
Speci	ies	: Mouse	
Resu	lt	: negative	
-	nesium stearate:		
Test		: Maximisation	Test
	sure routes	: Skin contact	
Speci Metho		: Guinea pig	Guideline 406
Resu		: negative	
Rema			ta from similar materials
Germ	n cell mutagenicity		
Not c	lassified based on av	ailable information.	
	ponents:		
	gravir:		
Geno	toxicity in vitro	: Test Type: re Result: nega	everse mutation assay tive
			Ikaline elution assay rat hepatocytes tive
			hromosomal aberration CD Test Guideline 473 tive
Geno	toxicity in vivo	: Test Type: Ir Species: Mo Result: nega	
			hromosomal aberration CD Test Guideline 475 tive
Cellu	lose:		
Geno	toxicity in vitro	: Test Type: B Result: nega	acterial reverse mutation assay (AMES) tive
		Test Type: Ir Result: nega	n vitro mammalian cell gene mutation test tive
Geno	toxicity in vivo	cytogenetic a Species: Mo	



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II			Result: negativ	/e
II Maria	• • • • • • • • • • • • • • • • • • • •			
	esium stearate: toxicity in vitro	:	Test Type: In v	vitro mammalian cell gene mutation test
		-	Result: negativ	
			Method: OECI Result: negative	romosome aberration test in vitro D Test Guideline 473 /e ed on data from similar materials
			Remarks. Das	ed on data nom similar materials
			Result: negativ	cterial reverse mutation assay (AMES) /e ed on data from similar materials
			Remarks. Das	ed on data nom sinniar materials
	onium hydroxide:			
Geno	toxicity in vitro	:	Test Type: Bac Result: negativ	cterial reverse mutation assay (AMES) /e
II Carci	nogenicity			
	lassified based on avai	lable	information.	
Com	oonents:			
Ralte	gravir:			
Speci		:	Mouse, male a	ind female
Expos Resu	sure time It	:	104 weeks negative	
			- 3	
Cellu			_	
Speci Applio	es cation Route	:	Rat Ingestion	
Expo	sure time	:	72 weeks	
Resu	It	:	negative	
	oductive toxicity ected of damaging the	unho	rn child	
•	ponents:	unbo		
	gravir:			
	gravir: ts on fertility	:	Species: Rat, I Application Ro	ty - Parent: NOAEL: 600 mg/kg body weig
Effect	ts on foetal develop-	:	Species: Rat	
			11/2	1



ersion D	Revision Date: 2024/09/28		9S Number: 451-00025	Date of last issue: 2024/04/06 Date of first issue: 2014/10/09
ment			Teratogenicity:	ty Maternal: NOAEL: >= 600 mg/kg body weigh LOAEL F1: 300 mg/kg body weight eletal malformations
			weight	ty Maternal: NOAEL: >= 1,000 mg/kg body NOAEL: >= 1,000 mg/kg body weight
Repro sessm	ductive toxicity - As- nent	:	Some evidence animal experim	e of adverse effects on development, based on nents.
Cellul	ose:			
Effect	s on fertility	:	Test Type: One Species: Rat Application Ro Result: negativ	
Effect: ment	s on foetal develop-	:	Test Type: Fer Species: Rat Application Ro Result: negativ	
II Magn	esium stearate:			
	s on fertility	:	reproduction/d Species: Rat Application Ro Method: OECE Result: negativ	) Test Guideline 422
Effect: ment	s on foetal develop-	:	Species: Rat Application Ro Result: negativ	
	- single exposure ause respiratory irritati	on.		
-	oonents:			
Ralte	gravir:			
Expos Targe	sure routes t Organs ssment	:	Inhalation Respiratory Tra May cause res	act piratory irritation.



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#### **STOT - repeated exposure**

Not classified based on available information.

#### Repeated dose toxicity

#### Components:

Raltegravir:		
Species NOAEL Application Route Exposure time Symptoms	:	Dog 90 mg/kg Oral 371 d Vomiting
Species NOAEL LOAEL Application Route Exposure time Target Organs	:	Rat 30 mg/kg 120 mg/kg Oral 189 d Stomach
Species NOAEL LOAEL Application Route Exposure time Target Organs	:	Mouse 50 mg/kg 500 mg/kg Oral 14 Weeks Stomach
Species NOAEL LOAEL Application Route Exposure time Target Organs	:	Rat 50 mg/kg 200 mg/kg Oral 8 Weeks Stomach
<b>Cellulose:</b> Species NOAEL Application Route Exposure time	:	Rat >= 9,000 mg/kg Ingestion 90 Days
Magnesium stearate:		
Species	:	Rat

: Rat
: > 100 mg/kg
: Ingestion
: 90 Days
: Based on data from similar materials

#### Aspiration toxicity

Not classified based on available information.



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-	rience with human exp ponents <u>:</u>	oosi	ire		
	gravir:				
Ingest	-	:	Symptoms: Nat irritation	usea, Diarrhoea, Headache, Fever, Rash, Skir	
2. ECOLO	OGICAL INFORMATIO	N			
Ecoto	oxicity				
	oonents:				
Ralte	gravir:				
Toxici	ty to fish	:	Exposure time:	lles promelas (fathead minnow)): > 100 mg/l 96 h Test Guideline 203	
			mg/l Exposure time:	don variegatus (sheepshead minnow)): > 100 96 h Test Guideline 203	
	ty to daphnia and other ic invertebrates	:	<ul> <li>EC50 (Daphnia magna (Water flea)): &gt; 100 mg/l</li> <li>Exposure time: 48 h</li> <li>Method: OECD Test Guideline 202</li> </ul>		
Toxici plants	ty to algae/aquatic	:	Exposure time:	kirchneriella subcapitata (green algae)): 66 mg 96 h Test Guideline 201	
			mg/l Exposure time:	kirchneriella subcapitata (green algae)): 3.8 96 h Test Guideline 201	
Toxici icity)	ty to fish (Chronic tox-	:	: NOEC (Pimephales promelas (fathead minnow)): 9.3 mg/l Exposure time: 33 d Method: OECD Test Guideline 210		
	ty to daphnia and other ic invertebrates (Chron- city)		NOEC (Daphnia magna (Water flea)): 9.5 mg/l Exposure time: 21 d Method: OECD Test Guideline 211		
Toxici	ty to microorganisms	:			
			NOEC: 1,000 m	ng/l	



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				3 h spiration inhibition 0 Test Guideline 209
II Cellul	ose:			
Toxicit	ty to fish	:	Exposure time:	latipes (Japanese medaka)): > 100 mg/l 48 h ed on data from similar materials
Magne	esium stearate:			
Toxicit	ty to fish	:	Exposure time: Method: DIN 3	
	ty to daphnia and other c invertebrates	:	Exposure time: Test substance Method: Direct Remarks: Base	a magna (Water flea)): > 1 mg/l 47 h water Accommodated Fraction ive 67/548/EEC, Annex V, C.2. ed on data from similar materials he limit of solubility
Toxicit plants	ty to algae/aquatic	:	mg/l Exposure time: Test substance Method: OECD Remarks: Base	kirchneriella subcapitata (green algae)): > 1 72 h 9: Water Accommodated Fraction 9 Test Guideline 201 9d on data from similar materials 10 limit of solubility
			mg/l Exposure time: Test substance Method: OECD	dokirchneriella subcapitata (green algae)): > 7 2 72 h 9: Water Accommodated Fraction 9 Test Guideline 201 9d on data from similar materials
Toxicit	ty to microorganisms	:	Exposure time: Test substance	monas putida): > 100 mg/l : 16 h e: Water Accommodated Fraction ed on data from similar materials
Ammo	onium hydroxide:			
	ty to fish	:	Exposure time:	vnchus mykiss (rainbow trout)): 0.89 mg/l 96 h e: Neutralised product
	ty to daphnia and other c invertebrates	:	EC50 (Daphnia Exposure time:	a magna (Water flea)): 101 mg/l 5 48 h



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	or (Acute aquatic tox-	:	1	
icity) Toxicity icity)	y to fish (Chronic tox-	:	Exposure time	rhynchus mykiss (rainbow trout)): 0.0135 mg/l e: 73 d æ: Neutralised product
	/ to daphnia and other invertebrates (Chron- ity)	:	Exposure time	nia magna (Water flea)): 0.961 mg/l e: 21 d sed on data from similar materials
Persis	tence and degradabili	ty		
Compo	onents:			
Ralteg	ravir:			
Biodeg	radability	:	Result: rapidly Biodegradatic Exposure time Method: OEC	n: 50 %
Stabilit	y in water	:	Hydrolysis: < Method: OEC	10 %(5 d) D Test Guideline 111
Cellulo	ose:			
Biodeg	radability	:	Result: Readi	ly biodegradable.
Magne	sium stearate:			
	radability	:	Result: Not bi Remarks: Bas	odegradable sed on data from similar materials
Bioaco	cumulative potential			
<u>Compo</u>	onents:			
Ralteg	ravir:			
Partitio octanol	n coefficient: n- I/water	:	log Pow: -0.32	28
Magne	sium stearate:			
Partitio octano	n coefficient: n- I/water	:	log Pow: > 4	
Mobilit	y in soil			
No data	a available			
	lous to the ozone laye	ər		
	<b>adverse effects</b> a available			



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#### **13. DISPOSAL CONSIDERATIONS**

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

#### 14. TRANSPORT INFORMATION

#### **International Regulations**

<b>UNRTDG</b> UN number Proper shipping name	:	Not applicable Not applicable
Class	:	Not applicable
Subsidiary risk	:	Not applicable
Packing group	:	Not applicable
Labels	:	Not applicable
Environmentally hazardous	:	no
IATA-DGR		
UN/ID No.	:	Not applicable
Proper shipping name	:	Not applicable
Class	:	Not applicable
Subsidiary risk	:	Not applicable
Packing group	:	Not applicable
Labala		Natandiaahla

	-	
Packing group	:	Not applicable
Labels	:	Not applicable
Packing instruction (cargo	:	Not applicable
aircraft)		
Packing instruction (passen-	:	Not applicable
ger aircraft)		

### IMDG-Code

UN number	:	Not applicable
Proper shipping name	:	Not applicable
Class	:	Not applicable
Subsidiary risk	:	Not applicable
Packing group	:	Not applicable
Labels	:	Not applicable
EmS Code	:	Not applicable
Marine pollutant	:	Not applicable

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

Not applicable for product as supplied.

#### National Regulations

Refer to section 15 for specific national regulation.

#### Special precautions for user

Not applicable



Remarks

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#### **15. REGULATORY INFORMATION**

#### **Related Regulations**

#### **Fire Service Law**

Not applicable to dangerous materials / designated flammables.

#### **Chemical Substance Control Law**

Not applicable for Specified Chemical Substance, Monitoring Chemical Substance and Priority Assessment Chemical Substance.

#### Industrial Safety and Health Law

#### Harmful Substances Prohibited from Manufacture

Not applicable

#### Harmful Substances Required Permission for Manufacture

Not applicable

#### **Substances Prevented From Impairment of Health**

Not applicable

Circular concerning Information on Chemicals having Mutagenicity - Annex 2: Information on Existing Chemicals having Mutagenicity

Not applicable

# Circular concerning Information on Chemicals having Mutagenicity - Annex 1: Information on Notified Substances having Mutagenicity

Not applicable

#### Substances Subject to be Notified Names

Article 57-2 (Enforcement Order Table 9)

Chemical name	Concentration (%)	Remarks
Magnesium stearate	>=1 - <10	-
Ammonia	>=0.1 - <1	-

#### Substances Subject to be Indicated Names

Article 57 (Enforcement Order Article 18)

Chemical name

Magnesium stearate		
	Magnesium stearate	

Skin and Eye Damage Substances for PPE Requirements (ISHL MO Art. 594-2) Not applicable

#### Carcinogenic Substances (Article 577-2 of the Occupational Health and Safety Regulations)

Not applicable

#### Ordinance on Prevention of Hazards Due to Specified Chemical Substances

Not applicable

#### Ordinance on Prevention of Lead Poisoning

Not applicable



ersion D	Revision Date: 2024/09/28	SDS Number: 20451-00025	Date of last issue: 2024/04/06 Date of first issue: 2014/10/09
	a <b>nce on Preventior</b> pplicable	n of Tetraalkyl Lead P	oisoning
	ance on Preventior	n of Organic Solvent I	Poisoning
Subs	cement Order of th tances) oplicable	e Industrial Safety an	d Health Law - Attached table 1 (Dangerou
Poisc		ous Substances Conti	ol Law
viron			of Specific Chemical Substances in the E the Management Thereof
-	Pressure Gas Safet	y Act	
•	osive Control Law		
	el Safety Law egulated as a danger	ous good	
	<b>ion Law</b> egulated as a danger	ous good	
Marin	e Pollution and Sea	a Disaster Prevention	etc Law
Bulk t	ransportation	: Not classified	as noxious liquid substance
Pack	transportation	: Not classified	as marine pollutant
Narco	otics and Psychotro	pics Control Act	
		Raw Material (Export / I	mport Permission)
Speci	pplicable fic Narcotic or Psych pplicable	otropic Raw Material (I	Export / Import permission)
	e Disposal and Pub trial waste	lic Cleansing Law	
The c	omponents of this	product are reported	in the following inventories:
AICS	-	: not determined	-
DSL		: not determined	t
IECS	C	: not determine	t

In this SDS, if the concentration of substances subject to notification under the Industrial Safety and Health Law is indicated as a range, it includes cases where it is a trade secret.



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#### Further information

Sources of key data used to : compile the Safety Data	Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agen-
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.

Date format	:	yyyy/mm/dd			
Full text of other abbreviations					
ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)			
ACGIH / TWA		8-hour, time-weighted average			
		, 0 0			
ACGIH / STEL	:	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



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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 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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