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GHS Classification Reproductive toxicity	:	Category 2
Specific target organ toxicity - repeated exposure (Oral)	:	Category 2 (Liver, spleen, Blood)
GHS label elements Hazard pictograms	:	
Signal word	:	Warning
Hazard statements	:	H361d Suspected of damaging the unborn child. H373 May cause damage to organs (Liver, spleen, Blood) through prolonged or repeated exposure if swallowed.
Precautionary statements	:	Prevention: P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P260 Do not breathe dust. P280 Wear protective gloves/ protective clothing/ eye protec-





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tion/ face protection.

Response:

P308 + P313 IF exposed or concerned: Get medical advice/ attention.

Storage:

P405 Store locked up.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

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.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
Cellulose	9004-34-6	>= 30 -< 60
Letermovir	917389-32-3	>= 30 -< 60
Magnesium stearate	557-04-0	< 10

4. FIRST AID MEASURES

General advice	:	In the case of accident or if you feel unwell, seek medical ad- vice 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 soap and 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	:	Suspected of damaging the unborn child. May cause damage to organs through prolonged or repeated exposure if swallowed. Contact with dust can cause mechanical irritation or drying of



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	ection of first-aiders s to physician	:	First Aid respon and use the rec when the poter	ith the eyes can lead to mechanical irritation. nders should pay attention to self-protection, commended personal protective equipment itial for exposure exists (see section 8). atically and supportively.
5. FIREFI	GHTING MEASURES			
Suita	able extinguishing media	:	Water spray Alcohol-resista Carbon dioxide Dry chemical	
Unsu medi	uitable extinguishing	:	None known.	
	cific hazards during fire-	:	concentrations potential dust e	ng dust; fine dust dispersed in air in sufficient and in the presence of an ignition source is a explosion hazard. mbustion products may be a hazard to health.
Haza ucts	ardous combustion prod-	:	Carbon oxides Metal oxides Nitrogen oxides	s (NOx)
Spec ods	cific extinguishing meth-	:	cumstances an Use water spra	ing measures that are appropriate to local cir- d the surrounding environment. y to cool unopened containers. naged containers from fire area if it is safe to do
	cial protective equipment refighters	:	In the event of	fire, wear self-contained breathing apparatus. rotective equipment.
6. ACCID	ENTAL RELEASE MEAS	SUF	RES	
tive e	onal precautions, protec- equipment and emer- cy procedures	:	Follow safe ha	rotective equipment. Indling advice (see section 7) and personal pro- ent recommendations (see section 8).
Envi	ronmental precautions	:	Prevent further Retain and disp	o the environment. leakage or spillage if safe to do so. pose of contaminated wash water. is should be advised if significant spillages ained.
	nods and materials for ainment and cleaning up	:	tainer for dispo Avoid dispersa with compresse Dust deposits s es, as these ma	of dust in the air (i.e., clearing dust surfaces

leased into the atmosphere in sufficient concentration. Local or national regulations may apply to releases and dis-



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		employed in the or mine which regula Sections 13 and r	erial, as well as those materials and items cleanup of releases. You will need to deter- ations are applicable. I5 of this SDS provide information regarding ational requirements.
7. HAN	NDLING AND STORAGE		
	echnical measures	causing an explose Provide adequate and bonding, or in	precautions, such as electrical grounding nert atmospheres.
	ocal/Total ventilation dvice on safe handling	Handle in accorda practice, based o sessment Minimize dust gen Keep container cl Keep away from I Take precautiona	ust.
С	onditions for safe storage	: Keep in properly Store locked up.	abelled containers.
Μ	aterials to avoid		the following product types:

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of	Control parame- ters / Permissible	Basis
		exposure)	concentration	
Cellulose	9004-34-6	NAB	10 mg/m3	ID OEL
		TWA	10 mg/m3	ACGIH
Letermovir	917389-32-3	TWA	0.4 mg/m3 (OEB	Internal
			2)	
Magnesium stearate	557-04-0	NAB	10 mg/m3	ID OEL
	Further information: Not classified as c enough data to classify these materials			
	mans or anima	als		
		TWA (Inhal-	10 mg/m3	ACGIH
		able particu-		
		late matter)		



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				TWA (Res- pirable par- ticulate mat- ter)	3 mg/m3	ACGIH
Engin	eering measures	:	compound. All engineerir design and o	ng controls shoul	rols to minimize expo d be implemented by dance with GMP prin d the environment.	facility
Perso	nal protective equip	ment				
Filte Hand p	atory protection er type protection terial	:	sure assessn	nent demonstrate uidelines, use re ype	tilation is not availabl es exposures outside spiratory protection.	
Eye pr	otection	:	If the work er mists or aero Wear a faces	ivironment or act sols, wear the ap hield or other ful	shields or goggles. ivity involves dusty c propriate goggles. I face protection if the he face with dusts, n	ere is a
	nd body protection ne measures	:	Work uniform If exposure to eye flushing s ing place. When using of Wash contain The effective engineering of appropriate of industrial hyg	systems and safe do not eat, drink inated clothing b operation of a fa controls, proper p egowning and do	ly during typical use, ety showers close to or smoke. before re-use. icility should include bersonal protective ed econtamination proce medical surveillance	the work- review of quipment, adures,
PHYSIC	AL AND CHEMICAL	PRO	PERTIES			
Appea	rance	:	powder			
Colour		:	No data ava	ilable		

Odour	:	No data available
Odour Threshold	:	No data available
рН	:	No data available
Melting point/freezing point	:	No data available

Initial boiling point and boiling : No data available

SAFETY DATA SHEET



Letermovir Solid Formulation

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range				
Flash	point	:	Not applicable	
Evapo	pration rate	:	Not applicable	
Flamr	nability (solid, gas)	:	May form explos dling or other me	ive dust-air mixture during processing, han- ans.
Flamr	nability (liquids)	:	No data available	9
	r explosion limit / Upper nability limit	:	No data available	9
	r explosion limit / Lower nability limit	:	No data available	9
Vapo	ur pressure	:	Not applicable	
Relati	ve vapour density	:	Not applicable	
Relati	ve density	:	No data available	9
Densi	ty	:	No data available	9
	ility(ies) ater solubility	:	No data available	9
	on coefficient: n- ol/water	:	Not applicable	
	ignition temperature	:	No data available	9
Decor	mposition temperature	:	No data available	9
Visco Vis	sity scosity, kinematic	:	Not applicable	
Explo	sive properties	:	Not explosive	
Oxidiz	zing properties	:	The substance o	r mixture is not classified as oxidizing.
Partic	le size	:	No data available	9

10. STABILITY AND REACTIVITY

Reactivity	:	Not classified as a reactivity hazard.
Chemical stability	:	Stable under normal conditions.
Possibility of hazardous reac-	:	May form explosive dust-air mixture during processing, han-
tions		dling or other means.
		Can react with strong oxidizing agents.



ersion 1	Revision Date: 2023/09/30	-	S Number: 421-00025	Date of last issue: 2023/04/04 Date of first issue: 2015/02/16
Incon	itions to avoid npatible materials rdous decomposition ucts	:	Heat, flames ar Avoid dust form Oxidizing agen No hazardous o	nation.
. TOXIC	OLOGICAL INFORMAT	101	1	
Inforr expo	nation on likely routes of sure	:	Inhalation Skin contact Ingestion Eye contact	
	e toxicity lassified based on availa	ble	information.	
<u>Com</u>	ponents:			
	lose: e oral toxicity	:	LD50 (Rat): > 5,	000 mg/kg
Acute	inhalation toxicity	:	LC50 (Rat): > 5. Exposure time: - Test atmosphere	4 h
Acute	e dermal toxicity	:	LD50 (Rabbit): >	> 2,000 mg/kg
Leter	movir:			
Acute	e oral toxicity	:	LD50 (Rat): > 2,	000 mg/kg
			LD50 (Mouse): :	> 2,000 mg/kg
Magr	nesium stearate:			
-	e oral toxicity	:	Assessment: Th icity	000 mg/kg Test Guideline 423 e substance or mixture has no acute oral too d on data from similar materials
Acute	e dermal toxicity	:	LD50 (Rabbit): > Remarks: Based	> 2,000 mg/kg d on data from similar materials
-	corrosion/irritation lassified based on availa	ble	information.	
<u>Com</u>	ponents:			
Leter Rema	m ovir: arks	:	No data availab	e



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Magn	esium stearate:		
Speci		: Rabbit	
Resu		: No skin irritatio	
Rema	arks	: Based on data	from similar materials
	us eye damage/eye lassified based on av		
Com	oonents:		
Leter	movir:		
Rema	arks	: No data availa	ble
Magn	esium stearate:		
Speci		: Rabbit	
Resu		: No eye irritatio	
Rema	arks	: Based on data	from similar materials
Not cl Resp	sensitisation lassified based on av iratory sensitisation lassified based on av	1	
<u>Com</u>	oonents:		
Leter	movir:		
	movir:	: No data availa	ble
Leter Rema	movir:	: No data availa	ble
Leter Rema Magn Test	movir: arks tesium stearate: Type	: No data availa : Maximisation -	
Leter Rema Magn Test	movir: arks tesium stearate: Type sure routes	: Maximisation : Skin contact	
Leter Rema Magn Test Expos Speci	movir: arks tesium stearate: Type sure routes tes	: Maximisation : Skin contact : Guinea pig	Fest
Leter Rema Magn Test Expos Speci Metho	movir: arks tesium stearate: Type sure routes tes od	: Maximisation : Skin contact : Guinea pig : OECD Test G	Fest
Leter Rema Magn Test Expos Speci	movir: arks eesium stearate: Type sure routes es od	: Maximisation : Skin contact : Guinea pig : OECD Test Go : negative	Fest
Leter Rema Magn Test Expos Speci Metho Resul Rema	movir: arks eesium stearate: Type sure routes es od	: Maximisation : Skin contact : Guinea pig : OECD Test Go : negative	Fest uideline 406
Leter Rema Magn Test Expos Speci Metho Resul Rema	movir: arks eesium stearate: Type sure routes es od It arks	: Maximisation : Skin contact : Guinea pig : OECD Test G : negative : Based on data	Fest uideline 406
Leter Rema Magn Test Expos Speci Metho Resul Rema Oerm	movir: arks resium stearate: Type sure routes es od It arks	: Maximisation : Skin contact : Guinea pig : OECD Test G : negative : Based on data	Fest uideline 406
Leter Rema Magn Test Expos Speci Metho Resul Rema Oerm	movir: arks hesium stearate: Type sure routes les od lt arks h cell mutagenicity lassified based on ava ponents:	: Maximisation : Skin contact : Guinea pig : OECD Test G : negative : Based on data	Fest uideline 406
Leter Rema Magn Test Expos Speci Metho Resul Rema Not cl Comp Cellu	movir: arks hesium stearate: Type sure routes les od lt arks h cell mutagenicity lassified based on ava ponents:	: Maximisation : Skin contact : Guinea pig : OECD Test Gu : negative : Based on data ailable information.	Test uideline 406 from similar materials cterial reverse mutation assay (AME
Leter Rema Magn Test Expos Speci Metho Resul Rema Not cl Comp Cellu	movir: arks Type sure routes es od It arks cell mutagenicity lassified based on ave conents:	: Maximisation : Skin contact : Guinea pig : OECD Test G : negative : Based on data ailable information. : Test Type: Ba Result: negative	Test uideline 406 from similar materials cterial reverse mutation assay (AME



rsion	Revision Date: 2023/09/30	SDS Number: 58421-00025	Date of last issue: 2023/04/04 Date of first issue: 2015/02/16
Genot	toxicity in vivo		Mammalian erythrocyte micronucleus test (in vivo
		cytogenetic Species: Mo Application Result: nega	Route: Ingestion
Leteri	movir:		
Genot	toxicity in vitro	: Test Type: E Result: nega	Bacterial reverse mutation assay (AMES) ative
		Test Type: (Result: nega	Chromosome aberration test in vitro ative
Genot	toxicity in vivo	cytogenetic Species: Mo	ouse Route: Intraperitoneal injection
	cell mutagenicity - sment	: Weight of ev cell mutager	vidence does not support classification as a germ
Magn	esium stearate:		
-	toxicity in vitro	Result: nega	n vitro mammalian cell gene mutation test ative ased on data from similar materials
			Chromosome aberration test in vitro CD Test Guideline 473 ative
		Remarks: B	ased on data from similar materials
		Result: nega	Bacterial reverse mutation assay (AMES) ative ased on data from similar materials
	nogenicity assified based on ava	ilable information	
	onents:		
Cellul Specie		: Rat	
Applic	ation Route	: Ingestion	
Expos Result	sure time t	: 72 weeks : negative	

Reproductive toxicity

Suspected of damaging the unborn child.



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<u>Com</u>	ponents:		
Cellu	llose:		
Effec	ts on fertility	Species: Rat	ne-generation reproduction toxicity study oute: Ingestion ve
Effec ment	ts on foetal develop-	Species: Rat	rtility/early embryonic development oute: Ingestion ve
Lete	rmovir:		
Effec	ts on fertility	Species: Rat, Application Ro Fertility: NOA	
		Species: Rat, Application Ro Fertility: LOAE Result: No effo	
		Species: Mon Application Ro Fertility: NOA	
Effec ment	ts on foetal develop-	Species: Rat Developmenta Result: Embry	nbryo-foetal development al Toxicity: LOAEL: 250 mg/kg body weight ro-foetal toxicity rernal toxicity observed.
		Species: Rable Developmenta Result: Embry Abortion	nbryo-foetal development bit al Toxicity: LOAEL: 225 mg/kg body weight ro-foetal toxicity, Malformations were observed., rernal toxicity observed.
Repr sessi	oductive toxicity - As- ment	: Some evidence animal experir	e of adverse effects on development, based on ments.

Magnesium stearate:

SAFETY DATA SHEET



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Effects	s on fertility	reproduction/dev Species: Rat Application Rout	•
		Result: negative	Test Guideline 422 I on data from similar materials
Effects ment	s on foetal develop-	Species: Rat Application Rout Result: negative	yo-foetal development e: Ingestion I on data from similar materials

STOT - single exposure

Not classified based on available information.

STOT - repeated exposure

May cause damage to organs (Liver, spleen, Blood) through prolonged or repeated exposure if swallowed.

Components:

Letermovir:

Exposure routes	:	Ingestion
Target Organs	:	Liver, spleen, Blood
Assessment	:	May cause damage to organs through prolonged or repeated
		exposure.

Repeated dose toxicity

Components:

Cellulose:

Species	:	Rat
NOAEL	:	>= 9,000 mg/kg
Application Route	:	Ingestion
Exposure time	:	90 Days

Letermovir:

Species NOAEL LOAEL Application Route Exposure time Target Organs		Mouse 40 mg/kg 100 mg/kg Oral 13 Weeks Liver, spleen
Species NOAEL Application Route Exposure time	:	Rat 150 mg/kg Oral 26 Weeks



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Rema	arks	: No significant	adverse effects were reported
Speci		: Monkey	
NOAE		: 100 mg/kg	
LOAE		: 200 - 250 mg/	′kg
Applic	cation Route	: Oral	
	sure time	: 39 Weeks	
Targe	et Organs	: Kidney	
Speci		: Rat	
NOAE		: 60 mg/kg	
LOAE		: 180 mg/kg	
	sure time	: 13 Weeks	
Targe	et Organs	: Testis, Blood,	Liver, spleen, Immune system
Speci	ies	: Monkey	
NOAE	EL	: 30 mg/kg	
LOAE		: 100 mg/kg	
	cation Route	: Oral	
	sure time	: 4 Weeks	
Targe	et Organs	: Blood	
Magn	esium stearate:		
Speci	ies	: Rat	
NOAE	ΞL	: > 100 mg/kg	
	cation Route	: Ingestion	
_	sure time	: 90 Days	
		 Based on data 	a from similar materials
Expos Rema	arks		
Rema	ration toxicity	. Dased on date	
Rema Aspir			
Rema Aspir Not cl	ration toxicity	ailable information.	
Rema Aspir Not cl Expe	ration toxicity lassified based on av	ailable information.	
Rema Aspir Not cl Expe <u>Com</u>	ration toxicity lassified based on ave rience with human e	ailable information.	
Rema Aspir Not cl Expe <u>Com</u>	ration toxicity lassified based on av rience with human e ponents: movir:	ailable information. Exposure : Symptoms: Di	iarrhoea, Nausea, Vomiting, Headache, Dizz , Back pain, Oedema, Rash, muscle pain
Rema Aspir Not cl Expe Comp Leter Inges	ration toxicity lassified based on av rience with human e ponents: movir:	ailable information. Exposure : Symptoms: Diness, Fatigue	iarrhoea, Nausea, Vomiting, Headache, Dizz
Rema Aspir Not cl Expe Comp Leter Inges 2. ECOL	ration toxicity lassified based on ave rience with human e ponents: movir: tion	ailable information. Exposure : Symptoms: Diness, Fatigue	iarrhoea, Nausea, Vomiting, Headache, Dizz
Rema Aspir Not cl Expe Comp Leter Inges 2. ECOLO	ration toxicity lassified based on aver rience with human e ponents: movir: tion OGICAL INFORMAT	ailable information. Exposure : Symptoms: Diness, Fatigue	iarrhoea, Nausea, Vomiting, Headache, Dizz
Rema Aspir Not cl Expe Comp Leter Inges 2. ECOLO	ration toxicity lassified based on aver rience with human of ponents: movir: tion OGICAL INFORMAT oxicity ponents:	ailable information. Exposure : Symptoms: Diness, Fatigue	iarrhoea, Nausea, Vomiting, Headache, Dizz
Rema Aspir Not cl Expe <u>Comp</u> Leter Inges 2. ECOLO Ecoto <u>Comp</u> Cellu	ration toxicity lassified based on aver rience with human e ponents: movir: tion OGICAL INFORMAT oxicity ponents: lose:	ailable information. exposure : Symptoms: Diness, Fatigue ION	iarrhoea, Nausea, Vomiting, Headache, Dizz , Back pain, Oedema, Rash, muscle pain
Rema Aspir Not cl Expe <u>Comp</u> Leter Inges 2. ECOLO Ecoto <u>Comp</u> Cellu	ration toxicity lassified based on aver rience with human of ponents: movir: tion OGICAL INFORMAT oxicity ponents:	ailable information. exposure : Symptoms: Diness, Fatigue ION	iarrhoea, Nausea, Vomiting, Headache, Dizz , Back pain, Oedema, Rash, muscle pain s latipes (Japanese medaka)): > 100 mg/l



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	Leterm	ovir:			
	Toxicity	r to fish	:	LC50 (Menidia be Exposure time: 96 Method: OECD Te	
		to daphnia and other invertebrates	:	EC50 (Americamy Exposure time: 96	
				EC50 (Daphnia m Exposure time: 48 Method: OECD Te	
	Toxicity plants	v to algae/aquatic	:	mg/l Exposure time: 72 Method: OECD Te	
				mg/l Exposure time: 72 Method: OECD Te	
	Toxicity icity)	v to fish (Chronic tox-	:	Exposure time: 32 Method: OECD Te	
		to daphnia and other invertebrates (Chron- ty)	:	NOEC (Daphnia n Exposure time: 21 Method: OECD Te	
	Toxicity	to microorganisms	:	EC50: > 972 mg/l Exposure time: 3 Test Type: Respir Method: OECD Te	ation inhibition
				NOEC: 29.6 mg/l Exposure time: 3 Test Type: Respir Method: OECD Te	ation inhibition
	Magne	sium stearate:			
	Toxicity	r to fish	:	Exposure time: 48 Method: DIN 3841	
		to daphnia and other invertebrates	:	EL50 (Daphnia ma Exposure time: 47	agna (Water flea)): > 1 mg/l ' h



sion	Revision Date: 2023/09/30		S Number: 21-00025	Date of last issue: 2023/04/04 Date of first issue: 2015/02/16
			Method: Direc Remarks: Bas	e: Water Accommodated Fraction tive 67/548/EEC, Annex V, C.2. ed on data from similar materials he limit of solubility
Toxici plants	ty to algae/aquatic	:	mg/l Exposure time Test substanc Method: OECl Remarks: Bas No toxicity at t	e: Water Accommodated Fraction D Test Guideline 201 ed on data from similar materials he limit of solubility
			mg/l Exposure time Test substanc Method: OEC	dokirchneriella subcapitata (green algae)): > :: 72 h e: Water Accommodated Fraction D Test Guideline 201 ed on data from similar materials
Toxici	ty to microorganisms	:	Exposure time Test substanc	omonas putida): > 100 mg/l :: 16 h e: Water Accommodated Fraction ed on data from similar materials
Persi	stence and degradab	ility		
<u>Comp</u>	oonents:			
Cellu l Biode	ose: gradability	:	Result: Readil	y biodegradable.
	movir: gradability	:	Result: rapidly Biodegradatio Exposure time	n: 50 %
-	esium stearate: gradability	:	Result: Not bio Remarks: Bas	odegradable ed on data from similar materials
Bioac	cumulative potential			
<u>Comp</u>	oonents:			
Leter	movir:		log Pow: 2.29	
	on coefficient: n- ol/water	•	10g F 0w. 2.29	



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octan	ion coefficient: n- iol/water	:	log Pow: > 4		
	lity in soil ponents:				
	movir:				
Distril		:	log Koc: 3.46		
	r adverse effects ata available				
3. DISPC	SAL CONSIDERATION	IS			
Dispo	osal methods				
Waste	e from residues	:		of waste into sewer.	
Contr	Contaminated packaging		Empty containe	ccordance with local regulations. rs should be taken to an approved waste han- cycling or disposal. specified: Dispose of as unused product.	
	SPORT INFORMATION	<u> </u>			
4. TRAN	national Regulations	l			
4. TRAN Interi UNR	national Regulations		If not otherwise		
4. TRAN Interi UNR UN ni Prope	national Regulations TDG umber er shipping name	I : :	If not otherwise Not applicable Not applicable		
4. TRAN	national Regulations TDG umber er shipping name	I : :	If not otherwise Not applicable Not applicable Not applicable		
4. TRAN Interi UNR UN ni Prope Class Subsi	national Regulations TDG umber er shipping name s idiary risk		If not otherwise Not applicable Not applicable Not applicable Not applicable		
4. TRAN Intern UNR UN n Prope Class Subsi	national Regulations TDG umber er shipping name s idiary risk ing group	I : : : :	If not otherwise Not applicable Not applicable Not applicable		
4. TRAN Intern UN n Prope Class Subsi Packi Label	national Regulations TDG umber er shipping name s idiary risk ing group ls -DGR		If not otherwise Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable		
4. TRAN Intern UNR UN n Prope Class Subsi Packi Label IATA UN/IE	national Regulations TDG umber er shipping name idiary risk ing group ls -DGR D No.		If not otherwise Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable		
4. TRAN Intern UNR UN ni Prope Class Subsi Packi Label IATA UN/IE Prope	national Regulations TDG umber er shipping name idiary risk ing group Is -DGR D No. er shipping name		If not otherwise Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable		
4. TRAN Intern UNR UN ni Prope Class Subsi Packi Label IATA UN/IE Prope Class	national Regulations TDG umber er shipping name idiary risk ing group Is -DGR D No. er shipping name		If not otherwise Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable		
4. TRAN Intern UN nu Prope Class Subsi Packi Label IATA UN/IE Prope Class Subsi Subsi Packi	national Regulations TDG umber er shipping name idiary risk ing group ls -DGR D No. er shipping name s idiary risk ing group		If not otherwise Not applicable Not applicable		
4. TRAN Intern UNR UN nu Prope Class Subsi Packi Label IATA UN/IE Prope Class Subsi Packi Label	national Regulations TDG umber er shipping name idiary risk ing group ls -DGR D No. er shipping name idiary risk ing group		If not otherwise Not applicable Not applicable		
4. TRAN Intern UNR UN ni Prope Class Subsi Packi Label Prope Class Subsi Packi Label Packi Label Packi	national Regulations TDG umber er shipping name s idiary risk ing group ls -DGR D No. er shipping name s idiary risk ing group ls ing instruction (cargo		If not otherwise Not applicable Not applicable		
4. TRAN Intern UNR UN nu Prope Class Subsi Packi Label Prope Class Subsi Packi Label Packi aircra Packi	national Regulations TDG umber er shipping name s idiary risk ing group ls -DGR D No. er shipping name s idiary risk ing group ls ing instruction (cargo		If not otherwise Not applicable Not applicable		
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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.

Special precautions for user

Not applicable

15. REGULATORY INFORMATION

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

Minister of Industry Regulation No. 23/M-IND/PER/4/2013 concerning the Revision of Minister of Industry Regulation No. 87/M-IND/PER/9/2009 concerning Globally Harmonized System of Classification and Labelling of Chemicals.

Regulation of the Minister of Health No. 472 of 1996 on the Safeguarding of Substances Hazardous to Health

Hazardous substances that must be registered : Not applicable

Government Regulation No. 74 of 2001 on the Management of Hazardous and Toxic Substances

Hazardous substances approved for use	:	Not applicable
Prohibited substances	:	Not applicable
Restricted substances	:	Not applicable

Regulation of the Ministry of Trade No. 7 of 2022 on Distribution and Control of Hazardous Materials

Type of hazardous materials subject to distribution and : Not applicable control, Annex I

Type of hazardous materials subject to distribution and : Not applicable control, Annex II

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

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

16. OTHER INFORMATION

Revision Date

: 2023/09/30



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F	urther inforn	nation			
C	Sources of key data used to compile the Safety Data Sheet		:	Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agen- cy, http://echa.europa.eu/	
D	Date format		:	yyyy/mm/dd	
F	Full text of other abbreviation		ons		
	CGIH D OEL		:		eshold Limit Values (TLV) ational Exposure Limits
	ACGIH / TWA ID OEL / NAB		:	8-hour, time-weig Long term exposi	5

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 in the text. Material users should review the information and recommendations in the specific context of their





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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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