

Version 5.1	Revision Date: 09/30/2023		OS Number: 619-00028	Date of last issue: 04/04/2023 Date of first issue: 02/16/2015
SECTION	I 1. IDENTIFICATION			
Prod	uct name	:	Doravirine / Lam layer Formulatior	ivudine / Tenofovir Disoproxil Fumarate Bi-
Othe	r means of identification	:	No data available	
Man	ufacturer or supplier's	deta	nils	
	pany name of supplier		Merck & Co., Inc	
Addr	ess	:	126 E. Lincoln A	
Tolor	abana		Ranway, New Je 908-740-4000	rsey U.S.A. 07065
	phone rgency telephone		1-908-423-6000	
	ail address			/ARD@merck.com
Reco	ommended use of the c	hen	nical and restricti	ons on use
Reco	ommended use	:	Pharmaceutical	

SECTION 2. HAZARDS IDENTIFICATION

Restrictions on use : Not applicable

GHS classification in accordance with the Hazardous Products Regulations

Eye irritation	:	Category 2A
Reproductive toxicity	:	Category 2
Specific target organ toxicity - repeated exposure (Oral)	:	Category 2 (Blood, Bone, Kidney)
GHS label elements Hazard pictograms	:	
Signal Word	:	Warning
Hazard Statements	:	H319 Causes serious eye irritation. H361d Suspected of damaging the unborn child. H373 May cause damage to organs (Blood, Bone, Kidney) 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. P264 Wash skin thoroughly after handling. P280 Wear protective gloves, protective clothing, eye protection



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and face protection.

Response:

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P308 + P313 IF exposed or concerned: Get medical attention. P337 + P313 If eye irritation persists: Get medical attention.

Storage:

P405 Store locked up.

Disposal:

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

Other hazards

May form explosive dust-air mixture during processing, handling or other means.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	Common Name/Synonym	CAS-No.	Concentration (% w/w)
Cellulose	No data availa- ble	9004-34-6	21
Lamivudine	No data availa- ble	134678-17-4	19.2
Tenofovir	No data availa- ble	202138-50-9	19.2
Doravirine	3-Chloro-5-((1- ((4-methyl-5- oxo-4,5-dihydro- 1H-1,2,4-triazol- 3-yl)methyl)-2- oxo-4- (trifluoromethyl)- 1,2- dihydropyridin- 3-yl)oxy)benz		6.4

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.



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In cas	se of skin contact	Remov Get me Wash c	of contact, immediately flush skin with plenty of water. e contaminated clothing and shoes. dical attention. lothing before reuse. ghly clean shoes before reuse.		
In cas	se of eye contact	: In case for at le If easy	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lens, if worn. Get medical attention.		
If swallowed		: If swalle Get me	If swallowed, DO NOT induce vomiting. Get medical attention. Rinse mouth thoroughly with water.		
	important symptoms iffects, both acute and ed	: Causes Suspec May ca	serious eye irritation. ted of damaging the unborn child. use damage to organs through prolonged or repeated re if swallowed.		
	ction of first-aiders s to physician	 First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment when the potential for exposure exists (see section 8). Treat symptomatically and supportively. 			

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	:	Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical
Unsuitable extinguishing media	:	None known.
Specific hazards during fire fighting	:	Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard. Exposure to combustion products may be a hazard to health.
Hazardous combustion prod- ucts	:	Carbon oxides Nitrogen oxides (NOx) Halogenated 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.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- :	Use personal protective equipment.
tive equipment and emer-	Follow safe handling advice (see section 7) and personal
gency procedures	protective equipment recommendations (see section 8).



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Enviro	onmental precautions	:	Retain and dispos	akage or spillage if safe to do so. se of contaminated wash water. should be advised if significant spillages
	ds and materials for nment and cleaning up	:	container for disp Avoid dispersal of with compressed Dust deposits sho surfaces, as these released into the Local or national disposal of this m employed in the of determine which Sections 13 and	f 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.
	: Do not get on skin or clothing.
	Do not breathe dust.
	Do not swallow.
	Do not get in eyes.
	Wash skin thoroughly after handling.
	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.
Conditions for safe storage	: Keep in properly labeled containers.
	Store locked up.
	Store in accordance with the particular national regulations.
Materials to avoid	: Do not store with the following product types:
	Strong oxidizing agents



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SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Components	CAS-No.	Value type	Control parame-	Basis
		(Form of	ters / Permissible	
		exposure)	concentration	
Cellulose	9004-34-6	TWA	10 mg/m ³	CA AB OEL
		TWA (Total	10 mg/m ³	CA BC OEL
		dust)		
		TWA (respir-	3 mg/m³	CA BC OEL
		able dust		
		fraction)		
		TWAEV (to-	10 mg/m ³	CA QC OEL
		tal dust)		
		TWA	10 mg/m ³	ACGIH
Lamivudine	134678-17-4	TWA	100 µg/m3 (OEB	Internal
			2)	
Tenofovir	202138-50-9	TWA	150 ug/m3 (OEB	Internal
			2)	
Doravirine	1338225-97-	TWA	500 ug/m3	Internal
	0		(OEB2)	

Engineering measures	:	Use feasible engineering controls to minimize exposure to compound. All engineering controls should be implemented by facility design and operated in accordance with GMP principles to protect products, workers, and the environment.
Personal protective equipme	nt	
Respiratory protection	:	If adequate local exhaust ventilation is not available or exposure assessment demonstrates exposures outside the recommended guidelines, use respiratory protection.
Filter type	:	Particulates type
Hand protection		
Material	·	Chemical-resistant gloves
Eye protection	:	Wear safety glasses with side shields or goggles. If the work environment or activity involves dusty conditions, mists or aerosols, wear the appropriate goggles. Wear a faceshield or other full face protection if there is a potential for direct contact to the face with dusts, mists, or aerosols.
Skin and body protection	:	Work uniform or laboratory coat.
Hygiene measures	:	If exposure to 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. The effective operation of a facility should include review of engineering controls, proper personal protective equipment,



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					wning and decontamination procedures, monitoring, medical surveillance and the tive controls.					
SEC	SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES									
I	Appeara	ance	:	powder						
(Color		:	No data available	9					
(Odor		:	No data available	9					
(Odor Th	nreshold	:	No data available	9					
ł	рH		:	No data available	9					
I	Melting	point/freezing point	:	No data available	9					
	Initial bo range	biling point and boiling	:	No data available	9					
I	Flash p	oint	:	Not applicable						
I	Evapora	ation rate	:	Not applicable						
I	Flamma	ability (solid, gas)	:	May form explosi handling or other	ive dust-air mixture during processing, means.					
I	Flamma	ability (liquids)	:	No data available	9					
		explosion limit / Upper bility limit	:	No data available	9					
		explosion limit / Lower bility limit	:	No data available	9					
Ň	Vapor p	ressure	:	Not applicable						
I	Relative	e vapor density	:	Not applicable						
I	Relative	e density	:	No data available	9					
I	Density		:	No data available	9					
	Solubilit Wate	ty(ies) er solubility	:	No data available	9					
	Partitior	n coefficient: n-	:	Not applicable						
		ition temperature	:	No data available	9					
I	Decomp	position temperature	:	No data available	9					



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	sity scosity, kinematic sive properties	:	Not applicable Not explosive	
Oxidiz	zing properties	:	The substance o	r mixture is not classified as oxidizing.
Moleo	cular weight	:	No data available	9
Partic	ele size	:	No data available	e

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 Incompatible materials Hazardous decomposition	:	Heat, flames and sparks. Avoid dust formation. Oxidizing agents No hazardous decomposition products are known.
products		

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Inhalation Skin contact Ingestion Eye contact

Acute toxicity

Not classified based on available information.

Product:

Acute oral toxicity	:	Acute toxicity estimate: > 2,000 mg/kg Method: Calculation method
Componentes		

Components:

Cellulose:

Acute oral toxicity	:	LD50 (Rat): > 5,000 mg/kg
Acute inhalation toxicity	:	LC50 (Rat): > 5.8 mg/l Exposure time: 4 h Test atmosphere: dust/mist



	:	LD50 (Rabbit): > 2 LD50 (Rat): > 2,00 LD50 (Mouse): 4,1	
oxicity by (other routes of	:	. ,	00 mg/kg
y (other routes of	:	. ,	00 mg/kg
		LD50 (Mouse): 4,0	
		Remarks: No mor	000 mg/kg tality observed at this dose.
on)	:	LD50 (Rat): > 2,00 Application Route	
oxicity	:	LD50 (Rat): > 1,50	00 mg/kg
		LD50 (Dog): 30 m	g/kg
oxicity	:) mg/kg tality observed at this dose.
		(Rat): Method: Pr Remarks: No evid	nototoxicity lence of phototoxicity was observed
		LD50 (Dog): > 1,0 Remarks: No mor	00 mg/kg tality observed at this dose.
		LD50 (Mouse): > 4 Remarks: No mor	450 mg/kg tality observed at this dose.
	hla	information	
		internation.	
	:	Rabbit Mild skin irritation	
	:	Rabbit Mild skin irritation	
	:	No data available	
	exicity bxicity sion/irritation ad based on availa ts: e:	sion/irritation ed based on available ts:	bxicity : LD50 (Rat): > 1,50 LD50 (Dog): 30 m bxicity : LD50 (Rat): > 750 Remarks: No mor (Rat): Method: PH Remarks: No evid LD50 (Dog): > 1,0 Remarks: No mor LD50 (Mouse): > 4 Remarks: No mor sion/irritation ed based on available information. ts: : Rabbit : Mild skin irritation : Rabbit : Mild skin irritation

Serious eye damage/eye irritation

Causes serious eye irritation.



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<u>Con</u>	<u>nponents:</u>		
Lam	ivudine:		
Spe	cies	: Rabbi	it
Res	ult	: No ey	e irritation
Ten	ofovir:		
Spe Res		: Rabbi : Sever	it re irritation
Dor	avirine:		
	avinne. narks	: No da	ita available
Ren		. 110 08	
Res	piratory or skin sensi	tization	
Skin	sensitization		
Not	classified based on ava	ailable informa	ation.
	piratory sensitization classified based on ava		ation.
<u>Con</u>	<u>iponents:</u>		
Lam	ivudine:		
Rou	tes of exposure	: Derm	al
Spe		: Guine	
Res	ult	: Not a	skin sensitizer.
Ten	ofovir:		
	Туре		nization Test
	tes of exposure		contact
Spe Res		: Guine : Not a	skin sensitizer.
	avirine:		
Rem	narks	: No da	ita available
Geri	m cell mutagenicity		
Not	classified based on ava	ailable informa	ation.
<u>Con</u>	<u>iponents:</u>		
Cell	ulose:		
Gen	otoxicity in vitro		Type: Bacterial reverse mutation assay (AMES) t: negative
			Type: In vitro mammalian cell gene mutation test t: negative



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Genc	otoxicity in vivo	:	Test Type: Mamm cytogenetic assay Species: Mouse Application Route Result: negative	
Lami	vudine:			
	otoxicity in vitro	:	Test Type: Bacter Result: negative	ial reverse mutation assay (AMES)
			Test Type: Mouse Result: equivocal	Lymphoma
Genc	otoxicity in vivo	:	Test Type: Micron Species: Rat Application Route Result: negative	
			Test Type: Unsch mammalian liver of Species: Rat Result: negative	eduled DNA synthesis (UDS) test with ells in vivo
Teno	fovir:			
	otoxicity in vitro	:	Test Type: Bacter Result: equivocal	ial reverse mutation assay (AMES)
			Test Type: In vitro Result: positive	mammalian cell gene mutation test
Genc	otoxicity in vivo	:	cytogenetic test, c Species: Mouse	enicity (in vivo mammalian bone-marrow hromosomal analysis) : Intraperitoneal injection
			Result. negative	
	n cell mutagenicity - ssment	:	Weight of evidenc cell mutagen.	e does not support classification as a germ
Dora	virine:			
Geno	otoxicity in vitro	:	Test Type: Bacter Result: negative	ial reverse mutation assay (AMES)
				osomal aberration ese hamster ovary cells
Geno	otoxicity in vivo	:	Test Type: Micron Species: Rat	ucleus test



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			Cell type: Bon Application Ro Result: negati	oute: Oral
	i nogenicity lassified based on av	ailable	information.	
<u>Com</u>	ponents:			
Cellu	lose:			
	cation Route sure time	:	Rat Ingestion 72 weeks negative	
Lami	vudine:			
Speci Expo Resu	sure time	:	Rat 2 Years negative	
Speci Expo Resu	sure time	:	Mouse 2 Years negative	
Teno	fovir:			
	cation Route sure time	:	Mouse Oral 104 weeks negative	
	cation Route sure time	:	Rat Oral 104 weeks negative	
Dora	virine:			
	cation Route sure time It		Mouse Oral 6 Months negative No significant	adverse effects were reported
-	oductive toxicity ected of damaging the	e unbo	rn child.	
Com	ponents:			
Cellu Effect	lose: ts on fertility	:	Test Type: Or Species: Rat	ne-generation reproduction toxicity study



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			Application Route Result: negative	Ingestion
E	Effects on fetal development	:	Test Type: Fertility Species: Rat Application Route Result: negative	/early embryonic development
I	_amivudine:			
E	Effects on fertility	:	Species: Rat Application Route Fertility: NOAEL: 9	900 mg/kg body weight on fertility and early embryonic
E	Effects on fetal development	:	Species: Rabbit Application Route Symptoms: Preim	plantation loss., Skeletal malformations. ic effects and adverse effects on the
			Species: Rat Application Route Developmental To	o-fetal development : Oral oxicity: LOAEL: 45 mg/kg body weight s on fetal development.
	Reproductive toxicity - As- sessment	:	Some evidence of animal experimen	adverse effects on development, based on ts.
-	Fenofovir:			
E	Effects on fertility	:	Test Type: Fertility Species: Rat Application Route Result: No effects	
E	Effects on fetal development	:	Test Type: Embry Species: Rat Application Route Result: No advers	
			Test Type: Embry Species: Rabbit Result: No advers	o-fetal development e effects.
[Doravirine:			
E	Effects on fertility	:	Test Type: Fertility	/



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Eff	ects on fetal development	:	Result: No effects Test Type: Embry Species: Rat Application Route Developmental T Result: No advers Test Type: Embry Species: Rabbit Application Route	450 mg/kg body weight s on fertility. yo-fetal development e: Oral oxicity: NOAEL: 450 mg/kg body weight se effects. yo-fetal development e: Oral oxicity: NOAEL: 300 mg/kg body weight

STOT-single exposure

Not classified based on available information.

STOT-repeated exposure

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

Components:

Lamivudine:

Routes of exposure Target Organs Assessment	 Ingestion Blood May cause damage to organs through prolonged or repeated exposure.
Tenofovir	

Tenofovir:

Target Organs	:	Bone, Kidney
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

Lamivudine:

Species	:	Rat
NOAEL	:	425 mg/kg
Application Route	:	Oral
Exposure time	:	6 Months



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Target Sympt Remar		 Blood Gastrointestinal discomfort, Breathing difficulties, Fatali Significant toxicity observed in testing 	ity
Expos	- ation Route ure time Organs	 Dog 90 mg/kg Oral 12 Months Blood, spleen, Liver Salivation, Diarrhea, Changes in the blood count, Liver ders, Gastrointestinal disturbance 	disor-
Expos		: Mouse : 500 mg/kg : Oral : 1 Months : Blood	
Expos	es L	: Rat : 30 mg/kg : 300 mg/kg : Oral : 13 Weeks : Bone	
Expos	L	 Dog 3 mg/kg >= 10 mg/kg Oral 42 Weeks Kidney 	
Expos		 Monkey 10 mg/kg Subcutaneous 10 Months Bone 	
	es L ation Route ure time	 Rat 450 mg/kg Oral 6 Months No significant adverse effects were reported 	
	L ation Route ure time	 Mouse > 450 mg/kg Oral 3 Months No significant adverse effects were reported 	



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	EL cation Route sure time	: Ora : 9 N	,000 mg/kg al 1onths	verse effects were reported
Not cl	ation toxicity assified based on ava rience with human e		mation.	
-	oonents:			
Lamiv Inges	rudine: tion		mptoms: Head a, Cough	ache, Fatigue, Respiratory disorders, Diar-
Teno Inges	•••••		mptoms: Naus ne, Rash	ea, Diarrhea, Vomiting, flatulence, Head-
Dora v Inges	virine: tion	abi		ision, Headache, Dizziness, Nausea, Rash, s, flushing, Neurological disorders, mental

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity		
Components:		
Cellulose:		
Toxicity to fish	:	LC50 (Oryzias latipes (Japanese medaka)): > 100 mg/l Exposure time: 48 h Remarks: Based on data from similar materials
Lamivudine:		
Toxicity to fish	:	LC50 (Pimephales promelas (fathead minnow)): > 97.7 mg/l Exposure time: 96 h Method: OECD Test Guideline 203
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): > 100 mg/l Exposure time: 48 h Method: OECD Test Guideline 202
Toxicity to algae/aquatic plants	:	EC50 (Pseudokirchneriella subcapitata (green algae)): > 96.9 mg/l Exposure time: 72 h Method: OECD Test Guideline 201

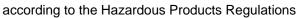


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				NOEC (Pseudokir mg/l Exposure time: 72 Method: OECD Te	
	Tenofo	vir:			
	Toxicity plants	v to algae/aquatic	:	EC50 (Raphidoce mg/l End point: Growth Exposure time: 72 Method: OECD Te	2 h
				NOEC (Raphidoco mg/l Exposure time: 72 Method: OECD Te	
	Toxicity icity)	v to fish (Chronic tox-	:	NOEC (Pimephale Exposure time: 32 Method: OECD Te	
		v to daphnia and other invertebrates (Chron- ity)	:	NOEC (Daphnia n Exposure time: 21 Method: OECD Te	
	Toxicity	to microorganisms	:	EC50: > 1,000 mg Exposure time: 3 Test Type: Respir Method: OECD Te	h ation inhibition
				NOEC: > 1,000 m Exposure time: 3 Test Type: Respir Method: OECD Te	h ation inhibition
	Doravi	rine:			
		to daphnia and other invertebrates	:	Exposure time: 48 Method: OECD Te	
				EC50 (Americamy Exposure time: 96	
	Toxicity plants	v to algae/aquatic	:	mg/l Exposure time: 72 Method: OECD Te	
				NOEC (Pseudokir	chneriella subcapitata (green algae)): 5.8



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	Toxicity to fish (Chronic tox- : icity)			mg/l Exposure time: 72 Method: OECD Te Remarks: No toxic	
			:	Exposure time: 32 Method: OECD Te	
		to daphnia and other invertebrates (Chron- ty)	:	NOEC (Daphnia magna (Water flea)): 6.7 mg/l Exposure time: 21 d Method: OECD Test Guideline 211 Remarks: No toxicity at the limit of solubility.	
	Toxicity	to microorganisms	:	EC50: > 1,000 mg Exposure time: 3 Test Type: Respir Method: OECD Te	h ation inhibition
				NOEC: 1,000 mg/ Exposure time: 3 Test Type: Respir Method: OECD Te	h ation inhibition
	Persist	ence and degradabili	ty		
	Compo	onents:			
	Cellulo Biodegi	se: radability	:	Result: Readily bi	odegradable.
	Lamivu Biodegi	idine: radability	:	Result: Not readily Biodegradation: 4 Exposure time: 28	۱%
	Tenofo	vir:			
	Biodegi	radability	:	Result: Not readily Biodegradation: 3 Exposure time: 28 Method: OECD Te	3.66 % 3 d
	Doravi	rine:			
	Biodegi	radability	:	Result: Not readily Biodegradation: 2 Exposure time: 28	2 %

SAFETY DATA SHEET





Doravirine / Lamivudine / Tenofovir Disoproxil Fumarate Bilayer Formulation

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Bioa	ccumulative potential			
Com	ponents:			
Lami	vudine:			
	ion coefficient: n- nol/water	:	log Pow: -1.44	
Teno	fovir:			
	ion coefficient: n- nol/water	:	log Pow: 1.06 pH: 7	
Dora	virine:			
	ion coefficient: n- nol/water	:	log Pow: 2.08	
Mobi	lity in soil			
Com	ponents:			
Lami	vudine:			
	bution among environ- al compartments	:	log Koc: 2.03	
Teno	fovir:			
	bution among environ- al compartments	:	log Koc: 3.33 Method: OECD T	est Guideline 106
Dora	virine:			
	bution among environ- al compartments	:	log Koc: 2.86	
	r adverse effects ata available			

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods		
Waste from residues		ot dispose of waste into sewer. ose of in accordance with local regulations.
Contaminated packaging	hano	ty containers should be taken to an approved waste lling site for recycling or disposal. t otherwise specified: Dispose of as unused product.

SECTION 14. TRANSPORT INFORMATION

International Regulations

UNRTDG Not regulated as a dangerous good

IATA-DGR



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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

TDG

Not regulated as a dangerous good

Special precautions for user

Not applicable

SECTION 15. REGULATORY INFORMATION

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

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

SECTION 16. OTHER INFORMATION

Full text of other abbreviations

ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)
CA AB OEL	:	Canada. Alberta, Occupational Health and Safety Code (table
CA BC OEL	:	2: OEL) Canada. British Columbia OEL
CA QC OEL	:	Québec. Regulation respecting occupational health and safe-
		ty, Schedule 1, Part 1: Permissible exposure values for air- borne contaminants
ACGIH / TWA	:	8-hour, time-weighted average
CA AB OEL / TWA	:	8-hour Occupational exposure limit
CA BC OEL / TWA	:	8-hour time weighted average
CA QC OEL / TWAEV	:	Time-weighted average exposure value

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized 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 Chemi-



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cal 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 Agen- cy, http://echa.europa.eu/
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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 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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