

Versi 5.2	ion	Revision Date: 06.04.2024		S Number: 16-00028	Date of last issue: 30.09.2023 Date of first issue: 16.02.2015
	TION 1 : Product	t IDENTIFICATION t name	:	Doravirine / Lami Formulation	vudine / Tenofovir Disoproxil Fumarate Bilayer
	Manufacturer or supplier's d			ls	
	Company		:	MSD	
	Addres	5	:		l 1/26 Talavera Rd NSW, Australia 2113
	Telepho	one	:	1 800 033 461	
	Emerge	ency telephone number	· :	Poisons Informat	ion Centre: Phone 13 11 26
	E-mail a	address	:	EHSDATASTEW	ARD@msd.com
	Recom	mended use of the ch	nemi	ical and restrictio	ons on use
		mended use ions on use	:	Pharmaceutical Not applicable	

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification Serious eye damage/eye irri- tation	:	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:



Doravirine / Lamivudine / Tenofovir Disoproxil Fumarate Bilayer Formulation

ersion 2	Revision Date: 06.04.2024	SDS Number: 58616-00028	Date of last issue: 30.09.2023 Date of first issue: 16.02.2015				
		P202 Do not l and understo P260 Do not l P264 Wash s	oreathe dust. kin thoroughly after handling. rotective gloves/ protective clothing/ eye protec-				
		Response:	Response:				
		for several mi easy to do. C P308 + P313 attention.	 + P338 IF IN EYES: Rinse cautiously with water nutes. Remove contact lenses, if present and ontinue rinsing. IF exposed or concerned: Get medical advice/ If eye irritation persists: Get medical advice/ at- 				
		Storage:					
		P405 Store lo	cked up.				
		Disposal:					
		P501 Dispose disposal plant	e of contents/ container to an approved waste				
Othe	r hazards which do ı	not result in classific	ation				
Mav f	form explosive dust-ai	r mixture during proce	ssing, handling or other means.				

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)	
Cellulose	9004-34-6	>= 10 -< 30	
Lamivudine	134678-17-4	>= 10 -< 30	
Tenofovir	202138-50-9	>= 10 -< 30	
Doravirine	1338225-97-0	< 10	

SECTION 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 medica advice. 	
If inhaled	: If inhaled, remove to fresh air. Get medical attention.	
In case of skin contact	 In case of contact, immediately flush skin with plenty of wate Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. 	r.



Doravirine / Lamivudine / Tenofovir Disoproxil Fumarate Bilayer Formulation

Version 5.2	Revision Date: 06.04.2024		OS Number: 616-00028	Date of last issue: 30.09.2023 Date of first issue: 16.02.2015
In c	ase of eye contact	:	In case of contact for at least 15 min	shoes before reuse. t, immediately flush eyes with plenty of water nutes. ove contact lens, if worn.
lf sv	vallowed	:	Get medical atter	NOT induce vomiting.
and	et important symptoms effects, both acute and ayed	:	Causes serious e Suspected of dan	ye irritation. naging the unborn child. ge to organs through prolonged or repeated
Pro	tection 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).
Not	es to physician	:		cally and supportively.
SECTIO	N 5. FIREFIGHTING MEA	SU	RES	
Suit	able extinguishing media	:	Water spray Alcohol-resistant Carbon dioxide (0 Dry chemical	
Uns med	uitable extinguishing Jia	:	None known.	
Spe figh	cific hazards during fire- ting	:	concentrations, a potential dust exp	dust; fine dust dispersed in air in sufficient nd in the presence of an ignition source is a plosion hazard. pustion products may be a hazard to health.
Haz ucts	ardous combustion prod-	:	Carbon oxides Nitrogen oxides (Halogenated com Metal oxides	
Spe ods	cific extinguishing meth-	:	cumstances and Use water spray	measures that are appropriate to local cir- the surrounding environment. to cool unopened containers. ged containers from fire area if it is safe to do
	cial protective equipment irefighters	:	In the event of fire	e, wear self-contained breathing apparatus. tective equipment.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- tive equipment and emer- gency procedures	:	Use personal protective equipment. Follow safe handling advice (see section 7) and personal pro- tective equipment recommendations (see section 8).
Environmental precautions	:	Avoid release to the environment.



Doravirine / Lamivudine / Tenofovir Disoproxil Fumarate Bilayer Formulation

			S Number: 616-00028	Date of last issue: 30.09.2023 Date of first issue: 16.02.2015	
				Retain and dispos	akage or spillage if safe to do so. se of contaminated wash water. should be advised if significant spillages ed.
	Methods and materials for containment and cleaning up		:	tainer for disposal Avoid dispersal of with compressed Dust deposits sho es, as these may leased into the att Local or national in posal of this mate employed in the c mine which regula Sections 13 and 1	dust in the air (i.e., clearing dust surfaces

SECTION 7. HANDLING AND STORAGE

Technical measures	 Static electricity may accumulate and ignite suspended dust causing an explosion. Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres.
Local/Total ventilation Advice on safe handling	 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 as- sessment Minimize dust generation and accumulation. Keep container closed when not in use. Keep away from heat and sources of ignition. Take precautionary measures against static discharges. Take care to prevent spills, waste and minimize release to the environment.
Hygiene measures	 If exposure to chemical is likely during typical use, provide 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, appropriate degowning and decontamination procedures, industrial hygiene monitoring, medical surveillance and the



Doravirine / Lamivudine / Tenofovir Disoproxil **Fumarate Bilayer Formulation**

Version 5.2	Revision Date: 06.04.2024	SDS Number: 58616-00028	Date of last issue: 30.09.2023 Date of first issue: 16.02.2015
Conditions for safe storage		Store locked up.	labelled containers.
Mate	rials to avoid		nce with the particular national regulations. In the following product types: agents

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Cellulose	9004-34-6	TWA	10 mg/m3	AU OEL
		TWA	10 mg/m3	ACGIH
Lamivudine	134678-17-4	TWA	100 µg/m3 (OEB 2)	Internal
Tenofovir	202138-50-9	TWA	150 ug/m3 (OEB 2)	Internal
Doravirine	1338225-97- 0	TWA	500 ug/m3 (OEB2)	Internal

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 equipment		
Respiratory protection	If adequate local exhaust ventilation is not available or exposure assessment demonstrates exposures outside the rec- ommended guidelines, use respiratory protection.)-
	Particulates type	
Hand protection Material	Chamical registent days	
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.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

: powder

- : No data available



Vers 5.2	sion	Revision Date: 06.04.2024		S Number: 16-00028	Date of last issue: 30.09.2023 Date of first issue: 16.02.2015
	Odour			No data available	2
		Threshold		No data available	
	рН	meshold		No data available	
		point/froozing point	•	No data available	
	-	point/freezing point	:		
	range	oiling point and boiling	:	No data available	3
	Flash p	oint	:	Not applicable	
	Evapor	ation rate	:	Not applicable	
	Flamma	ability (solid, gas)	:	May form explosi dling or other me	ve dust-air mixture during processing, han- ans.
	Flamma	ability (liquids)	:	No data available)
		explosion limit / Upper bility limit	:	No data available	
		explosion limit / Lower bility limit	:	No data available	
	Vapour	pressure	:	Not applicable	
	Relative	e vapour density	:	Not applicable	
	Relative	e density	:	No data available	
	Density	,	:	No data available	9
	Solubili Wat	ty(ies) er solubility	:	No data available	9
		n coefficient: n-	:	Not applicable	
	octanol Auto-ig	/water nition temperature	:	No data available	9
	Decom	position temperature	:	No data available	9
	Viscosi Visc	ty osity, kinematic	:	Not applicable	
	Explosi	ve properties	:	Not explosive	
	Oxidizir	ng properties	:	The substance o	r mixture is not classified as oxidizing.



Ver 5.2	sion	Revision Date: 06.04.2024		S Number: 616-00028	Date of last issue: 30.09.2023 Date of first issue: 16.02.2015
	Molecu	ılar weight	:	No data available	9
	Particle Particle	e characteristics e size	:	No data available	9
SEC	CTION 1	0. STABILITY AND RE	EAC	ΤΙVITY	
		<i>v</i> ity cal stability ility of hazardous reac-		Stable under nor May form explosi dling or other me	ve dust-air mixture during processing, han-
	Conditi	ons to avoid	:	Heat, flames and Avoid dust forma	
		patible materials lous decomposition ts	:	Oxidizing agents	
SEC	CTION 1	1. TOXICOLOGICAL I	NFC	ORMATION	
	Exposu	ure routes	:	Inhalation Skin contact Ingestion Eye contact	
		toxicity ssified based on availa	ble i	information.	
	Produc Acute o	<u>ct:</u> oral toxicity	:	Acute toxicity esti Method: Calculati	mate: > 2,000 mg/kg on method
	Compo	onents:			
					00 m a // m
		oral toxicity	:	LD50 (Rat): > 5,00	
	Acute i	nhalation toxicity	:	LC50 (Rat): > 5.8 Exposure time: 4 Test atmosphere:	h
	Acute of	dermal toxicity	:	LD50 (Rabbit): > 2	2,000 mg/kg
	Lamive Acute o	udine: oral toxicity	:	LD50 (Rat): > 2,0	00 mg/kg



	Revision Date: 06.04.2024		OS Number: 616-00028	Date of last issue: 30.09.2023 Date of first issue: 16.02.2015
			LD50 (Mouse): 4 Remarks: No mo	1,000 mg/kg ortality observed at this dose.
	toxicity (other routes of istration)	:	LD50 (Rat): > 2, Application Rou	
Teno	iovir:			
Acute	oral toxicity	:	LD50 (Rat): > 1,	500 mg/kg
			LD50 (Dog): 30	mg/kg
Dora	virine:			
Acute	oral toxicity	:	LD50 (Rat): > 75 Remarks: No me	50 mg/kg ortality observed at this dose.
			(Rat): Method: Remarks: No ev	Phototoxicity idence of phototoxicity was observed
			LD50 (Dog): > 1 Remarks: No me	,000 mg/kg ortality observed at this dose.
			LD50 (Mouse): : Remarks: No mo	> 450 mg/kg ortality observed at this dose.
Skin	corrosion/irritation			
-	corrosion/irritation assified based on availa	ble	Remarks: No mo	
Not cl		ble	Remarks: No mo	
Not cl <u>Comp</u> Lamiv	assified based on availa ponents: vudine:	ble	Remarks: No mo	
Not cl	assified based on availa ponents: vudine: es	ble :	Remarks: No mo	ortality observed at this dose.
Not cl <u>Comp</u> Lamiv Speci	assified based on availa ponents: vudine: es	ble :	Remarks: No mo information. Rabbit	ortality observed at this dose.
Not cl Comp Lamin Speci Resul	assified based on availa conents: vudine: es t f ovir:	ble :	Remarks: No mo information. Rabbit Mild skin irritatio	ortality observed at this dose.
Not cl Comp Lamin Speci Resul Tenol Speci	assified based on availa conents: vudine: es t fovir: es	ble : :	Remarks: No mo information. Rabbit Mild skin irritatio Rabbit	n
Not cl Comp Lamin Speci Resul	assified based on availa conents: vudine: es t fovir: es	ble : :	Remarks: No mo information. Rabbit Mild skin irritatio	n
Not cl Comp Lamiv Speci Resul Tenof Speci Resul	assified based on availa <u>ponents:</u> vudine: es t fovir: es t virine:	ble : :	Remarks: No mo information. Rabbit Mild skin irritatio Rabbit Mild skin irritatio	n
Not cl Comp Lamiv Speci Resul Tenof Speci Resul	assified based on availa <u>ponents:</u> vudine: es t fovir: es t virine:	ble : :	Remarks: No mo information. Rabbit Mild skin irritatio Rabbit	n
Not cl Comp Lamiv Speci Resul Tenof Speci Resul Dorav Rema	assified based on availa ponents: vudine: es t fovir: es t virine: urks	:	Remarks: No mo information. Rabbit Mild skin irritatio Rabbit Mild skin irritatio No data availabl	n
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Not cl Comp Lamin Speci Resul Dorav Rema Serio Cause Comp	assified based on availa <u>ponents:</u> <u>vudine:</u> es t fovir: es t <u>virine:</u> urks us eye damage/eye irri es serious eye irritation.	:	Remarks: No mo information. Rabbit Mild skin irritatio Rabbit Mild skin irritatio No data availabl	n



Result : No eye irritation Species : Rabbit Result : Severe irritation Doravrine: . . Remarks : No data available Respiratory or skin sensitisation . . Not classified based on available information. . . Respiratory sensitisation . . Not classified based on available information. . . Respiratory sensitisation . . Not classified based on available information. . . Components: . . . Moticassified based on available information. . . . Mot classified based on available information. . . . Result : Result : Result : 	rsion 2	Revision Date: 06.04.2024	SDS Number: 58616-00028	Date of last issue: 30.09.2023 Date of first issue: 16.02.2015
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Result: negative	Genoto	oxicity in vitro		
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	Genoto	oxicity in vivo	: Test Type: N	/ammalian erythrocyte micronucleus test (in v



Version 5.2	Revision Date: 06.04.2024	SDS Number: 58616-00028	Date of last issue: 30.09.2023 Date of first issue: 16.02.2015
		cytogenetic a Species: Mo Application F Result: nega	use Route: Ingestion
		Result. nega	live
	vudine:		
Geno	otoxicity in vitro	: Test Type: B Result: nega	Bacterial reverse mutation assay (AMES) Itive
		Test Type: M Result: equiv	/louse Lymphoma /ocal
Geno	otoxicity in vivo	: Test Type: M Species: Rat Application F Result: nega	Route: Oral
Teno	fovir:		
Geno	otoxicity in vitro	: Test Type: B Result: equiv	Bacterial reverse mutation assay (AMES) vocal
		Test Type: Ir Result: posit	n vitro mammalian cell gene mutation test ive
Geno	otoxicity in vivo	cytogenetic t Species: Mo	Route: Intraperitoneal injection
	n cell mutagenicity - ssment	: Weight of ev cell mutager	idence does not support classification as a germ
Dora	virine:		
	otoxicity in vitro	: Test Type: B Result: nega	Bacterial reverse mutation assay (AMES) Itive
			Chromosomal aberration : Chinese hamster ovary cells itive
Geno	otoxicity in vivo	: Test Type: M Species: Rat	/icronucleus test t
		10 /	21



Version	Revision Date:
5.2	06.04.2024

SDS Number: 58616-00028

Date of last issue: 30.09.2023 Date of first issue: 16.02.2015

Cell type: Bone marrow Application Route: Oral Result: negative

Carcinogenicity

Not classified based on available information.

Components:

Cellulose: Species : Rat Application Route Ingestion : Exposure time : 72 weeks Result : negative Lamivudine: Species : Rat Exposure time 2 Years : Result : negative Species : Mouse Exposure time 2 Years : Result negative :

Tenofovir:

Species	:	Mouse
Application Route	:	Oral
Exposure time	:	104 weeks
Result	:	negative

Species	: Rat
Application Route	: Oral
Exposure time	: 104 weeks
Result	: negative

Doravirine:

Species	:	Mouse
Application Route	:	Oral
Exposure time	:	6 Months
Result	:	negative
Remarks	:	No significant adverse effects were reported

Reproductive toxicity

Suspected of damaging the unborn child.

Components:

Cellulose:



ersion .2	Revision Date: 06.04.2024	SDS Number: 58616-00028	Date of last issue: 30.09.2023 Date of first issue: 16.02.2015
Effect	s on fertility	Species: Ra	Route: Ingestion
Effect ment	s on foetal develop-	Species: Ra	Route: Ingestion
	vudine: s on fertility	Species: Ra Application Fertility: NO	Route: Oral AEL: 900 mg/kg body weight affects on fertility and early embryonic develop-
Effect ment	s on foetal develop-	Species: Ra Application Symptoms:	Route: Oral Preimplantation loss, Skeletal malformations ryotoxic effects and adverse effects on the off-
		Species: Ra Application Developmer	Route: Oral ntal Toxicity: LOAEL: 45 mg/kg body weight Effects on foetal development
Repro sessn	oductive toxicity - As- nent	: Some evide animal expe	nce of adverse effects on development, based or riments.
Teno	fovir:		
Effect	s on fertility	Species: Ra Application	
Effect ment	s on foetal develop-	Species: Ra Application	
		Species: Ra	Embryo-foetal development bbit idverse effects



Version 5.2	Revision Date: 06.04.2024	SDS Number: 58616-00028	Date of last issue: 30.09.2023 Date of first issue: 16.02.2015	
Dora	virine:			
Effec	ts on fertility	: Test Type: Fei Species: Rat, I	rtility male and female	

	Result: No effects on fertility
Effects on foetal develop- : ment	Test Type: Embryo-foetal development Species: Rat Application Route: Oral Developmental Toxicity: NOAEL: 450 mg/kg body weight Result: No adverse effects
	Test Type: Embryo-foetal development Species: Rabbit Application Route: Oral Developmental Toxicity: NOAEL: 300 mg/kg body weight Result: No adverse effects

Fertility: NOAEL: 450 mg/kg body weight

STOT - single exposure

Not classified based on available information.

STOT - repeated exposure

Components:

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

: :	Ingestion Blood May cause damage to organs through prolonged or repeated exposure.
:	Bone, Kidney May cause damage to organs through prolonged or repeated exposure.
:	Rat >= 9,000 mg/kg Ingestion 90 Days



Version 5.2	Revision Date: 06.04.2024	SDS Number: 58616-00028	Date of last issue: 30.09.2023 Date of first issue: 16.02.2015
Speci NOAE Applic Expos Targe Symp Rema	EL cation Route sure time et Organs otoms arks	: Significant to : Dog	nal discomfort, Breathing difficulties, Fatality xicity observed in testing
Expos	cation Route sure time et Organs		n, Liver iarrhoea, Changes in the blood count, Liver dis- rointestinal disturbance
Expo		: Mouse : 500 mg/kg : Oral : 1 Months : Blood	
Expos	ies EL	: Rat : 30 mg/kg : 300 mg/kg : Oral : 13 Weeks : Bone	
Expo	EL	: Dog : 3 mg/kg : >= 10 mg/kg : Oral : 42 Weeks : Kidney	
Expo		: Monkey : 10 mg/kg : Subcutaneou : 10 Months : Bone	IS
Speci NOAE Applie		: Rat : 450 mg/kg : Oral : 6 Months	



Versi 5.2	on	Revision Date: 06.04.2024	SDS Number: 58616-00028		Date of last issue: 30.09.2023 Date of first issue: 16.02.2015
F	Remark	s	:	No significant adv	verse effects were reported
۲ / E	Species NOAEL Applica Exposu Remark	tion Route re time	:	Mouse > 450 mg/kg Oral 3 Months No significant adv	verse effects were reported
1 / E	Species NOAEL Applica Exposu Remark	tion Route re time		Dog > 1,000 mg/kg Oral 9 Months No significant adv	verse effects were reported
1	Not clas	ion toxicity ssified based on availa			
	•		050	ile.	
_	Lamivu	onents:			
	Ingestic		:	Symptoms: Head rhoea, Cough	ache, Fatigue, Respiratory disorders, Diar-
٦	Tenofo	vir:			
I	Ingestic	on	:	Symptoms: Naus ache, Rash	ea, Diarrhoea, Vomiting, flatulence, Head-
	Doravi				
I	Ingestic	n	:		sion, Headache, Dizziness, Nausea, Rash, , flushing, Neurological disorders, mental
SEC	TION 1	2. ECOLOGICAL INF	ORI	MATION	
I	Ecotox	icity			
<u>(</u>	Compo	onents:			
(Cellulo	se:			
-	Toxicity	to fish	:	Exposure time: 4	ipes (Japanese medaka)): > 100 mg/l 3 h on data from similar materials
I	Lamivu	idine:			
-	Toxicity	to fish	:	Exposure time: 9	s promelas (fathead minnow)): > 97.7 mg/l 6 h est Guideline 203



Vers 5.2	sion	Revision Date: 06.04.2024		9S Number: 616-00028	Date of last issue: 30.09.2023 Date of first issue: 16.02.2015
		to daphnia and other invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: OECD Te	
	Toxicity plants	to algae/aquatic	:	EC50 (Pseudokiro mg/l Exposure time: 72 Method: OECD To	
				NOEC (Pseudokin mg/l Exposure time: 72 Method: OECD To	
	Tenofo	vir:			
		to algae/aquatic	:	EC50 (Raphidoce mg/l End point: Growth Exposure time: 72 Method: OECD To	h .
				NOEC (Raphidocomg/l mg/l Exposure time: 72 Method: OECD Te	
	Toxicity icity)	to fish (Chronic tox-	:	NOEC (Pimephale Exposure time: 32 Method: OECD Te	
		to daphnia and other invertebrates (Chron- ty)	:	NOEC (Daphnia r 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:			
	Toxicity	to daphnia and other invertebrates	:	Exposure time: 48 Method: OECD Te	



rsion	Revision Date: 06.04.2024	-	S Number: 616-00028	Date of last issue: 30.09.2023 Date of first issue: 16.02.2015
			EC50 (Americam Exposure time: 9	
Toxicity plants	to algae/aquatic	:	mg/l Exposure time: 72 Method: OECD T	chneriella subcapitata (green algae)): > 5. 2 h est Guideline 201 city at the limit of solubility
			mg/l Exposure time: 72 Method: OECD T	rchneriella subcapitata (green algae)): 5.8 2 h est Guideline 201 city at the limit of solubility
Toxicity icity)	to fish (Chronic tox-	:	Exposure time: 3 Method: OECD T	es promelas (fathead minnow)): 1 mg/l 2 d est Guideline 210 city at the limit of solubility
	to daphnia and other invertebrates (Chron- ty)	:	Exposure time: 2 Method: OECD T	magna (Water flea)): 6.7 mg/l 1 d est Guideline 211 city at the limit of solubility
Toxicity	to microorganisms	:	EC50: > 1,000 m Exposure time: 3 Test Type: Respi Method: OECD T	ĥ
			NOEC: 1,000 mg Exposure time: 3 Test Type: Respi Method: OECD T	h
Persist	ence and degradabili	ty		
<u>Compo</u>	onents:			
Cellulo Biodegi	se: radability	:	Result: Readily b	iodegradable.
Lamivı Biodegi	idine: radability	:	Result: Not readil Biodegradation: Exposure time: 2	4 %



Doravirine / Lamivudine / Tenofovir Disoproxil Fumarate Bilayer Formulation

ersion 2	Revision Date: 06.04.2024		OS Number: 616-00028	Date of last issue: 30.09.202 Date of first issue: 16.02.201
Biode	gradability	:	Biodegradation: Exposure time:	
Dora	virine:			
	egradability	:	Result: Not read Biodegradation: Exposure time:	
Bioad	ccumulative potential			
<u>Com</u>	ponents:			
Partit	vudine: ion coefficient: n- ol/water	:	log Pow: -1.44	
Teno	fovir:			
	ion coefficient: n- ol/water	:	log Pow: 1.06 pH: 7	
Dora	virine:			
	ion coefficient: n- ol/water	:	log Pow: 2.08	
Mobi	lity in soil			
<u>Com</u>	ponents:			
Lami	vudine:			
	bution among environ- al compartments	:	log Koc: 2.03	
Teno	-			
	bution among environ- al compartments	:	0	Test Guideline 106
Dora	virine:			
	bution among environ- al compartments	:	log Koc: 2.86	
	r adverse effects ata available			

Disposal methods

Waste from residues

: Do not dispose of waste into sewer.



Version 5.2			OS Number: 616-00028	Date of last issue: 30.09.2023 Date of first issue: 16.02.2015	
Conta			Empty contained dling site for rec	cordance with local regulations. rs should be taken to an approved waste han- cycling or disposal. specified: Dispose of as unused product.	
ECTION	14. TRANSPORT INFO	RM	ATION		
Intern	ational Regulations				
UNRT	DC.				
UN nu Prope Class Subsid Packin Labels	imber r shipping name diary risk ng group		Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable no		
ΙΑΤΑ-	DGR				
UN/ID Prope Class Subsid Packin Labels Packin aircraf Packin ger ain	No. In shipping name diary risk ng group s ng instruction (cargo ft) ng instruction (passen- rcraft)		Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable		
UN nu Prope Class Subsid Packir Labels EmS (r shipping name diary risk ng group s		Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable		
	• •			POL 73/78 and the IBC Code	
	oplicable for product as	sup	plied.		
Natio	nal Regulations				
ADG UN n	umber	:	Not applicable	9	

UN number	:	Not applicable
Proper shipping name	:	Not applicable
Class	:	Not applicable
Subsidiary risk	:	Not applicable
Packing group	:	Not applicable
Labels	:	Not applicable
Hazchem Code	:	Not applicable



Version	Revision Date:	
5.2	06.04.2024	Ę

SDS Number: 58616-00028

Date of last issue: 30.09.2023 Date of first issue: 16.02.2015

Special precautions for user

Not applicable

SECTION 15. REGULATORY INFORMATION

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

Therapeutic Goods (PoisonsNo poison schedule number allocated (Please use the original
publication to check for specific uses, specific conditions or
threshold limits that might apply for this chemical)

Prohibition/Licensing Requirements

: There is no applicable prohibition, authorisation and restricted use requirements, including for carcinogens referred to in Schedule 10 of the model WHS Act and Regulations.

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

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

SECTION 16: ANY OTHER RELEVANT INFORMATION

Further information

Revision Date Sources of key data used to compile the Safety Data Sheet	:	06.04.2024 Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agen- cy, http://echa.europa.eu/		
Date format	:	dd.mm.yyyy		
Full text of other abbreviations				
ACGIH AU OEL	:	USA. ACGIH Threshold Limit Values (TLV) Australia. Workplace Exposure Standards for Airborne Con- taminants.		
ACGIH / TWA AU OEL / TWA	:	8-hour, time-weighted average Exposure standard - time weighted average		

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



Doravirine / Lamivudine / Tenofovir Disoproxil Fumarate Bilayer Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 30.09.2023
5.2	06.04.2024	58616-00028	Date of first issue: 16.02.2015

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 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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