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			ntification of the Substar		the Company/O	nuenaking	
.1	Product		21071				
	Product		Tenofovir-d6			O shaashaala Aalah	
	Synonyms:         PMPA-d6; 2(6-Amino-9H-purin-9-yl)-1-methylethoxy]methyl]-d6-phosphonic Acid;           9-(2-Phosphonomethoxypropyl)adenine-d6;						
_							
.2	Relevant identified uses of the substance or mixture and uses advised against:						
		ant identified uses:	For research use only, n	ot for human or vete	rinary use.		
1.3	Details of the Supplier of the Safety Data Sheet:						
	Comp	Company Name: Cayman Chemical C 1180 E. Ellsworth Ro Ann Arbor, MI 4810		bany			
	Web s	ite address:	www.caymanchem.com				
	Inform	nation:	Cayman Chemical Com	oanv	+1 (73-	4)971-3335	
1.4		ncy telephone numbe					
	-	jency Contact:	CHEMTREC Within USA	and Canada:	+1 (80	0)424-9300	
			CHEMTREC Outside US			3)527-3887	
			Castien O. Lla			,	
	<u> </u>		Section 2. Ha		cation		
	Label E GHS S	cation of the Substan lements: Signal Word:			cation		
2.2	Label El GHS S GHS H Based GHS F No ph GHS S Please Advers	lements: Signal Word: Hazard Phrases: I on evaluation of curren Precaution Phrases: rases apply. Response Phrases: rases apply. Storage and Disposal e refer to Section 7 for S e Human Health Ma and Symptoms: Ma	ce or Mixture: None ntly available data this sub Phrases: Storage and Section 13 for aterial may be irritating to t ay be harmful by inhalatior	estance or mixture is r Disposal informatio the mucous membra n, ingestion, or skin a	not classifiable ac n. nes and upper res	-	
2.1 2.2 2.3	Label El GHS S GHS H Based GHS H No ph GHS S Please Advers	lements: Signal Word: Hazard Phrases: I on evaluation of curren Precaution Phrases: rases apply. Response Phrases: rases apply. Storage and Disposal e refer to Section 7 for S e Human Health Ma and Symptoms: Ma	ce or Mixture: None ntly available data this sub Phrases: Storage and Section 13 for aterial may be irritating to t ay be harmful by inhalatior ay cause eye, skin, or resp	r Disposal informatio the mucous membra n, ingestion, or skin a piratory system irritat	not classifiable ac n. nes and upper res absorption.	-	
2.2	Label El GHS S GHS H Based GHS H No ph GHS S Please Advers	lements: Signal Word: Hazard Phrases: I on evaluation of curren Precaution Phrases: rases apply. Response Phrases: rases apply. Storage and Disposal e refer to Section 7 for S e Human Health Ma and Symptoms: Ma Ma To	ce or Mixture: None ntly available data this sub Phrases: Storage and Section 13 for aterial may be irritating to t ay be harmful by inhalatior ay cause eye, skin, or resp	r Disposal informatio the mucous membra n, ingestion, or skin a piratory system irritat e, the toxicological p	not classifiable ac n. nes and upper res absorption. ion. roperties have not	spiratory tract. t been thoroughly investigate	
2.2 2.3	Label El GHS S GHS H Based GHS F No ph GHS S Please Advers Effects	lements: Signal Word: Hazard Phrases: I on evaluation of current Precaution Phrases: rases apply. Response Phrases: rases apply. Storage and Disposal e refer to Section 7 for S e Human Health Ma and Symptoms: Ma Ma To Sectior	ce or Mixture: None ntly available data this sub Phrases: Storage and Section 13 for aterial may be irritating to t ay be harmful by inhalatior ay cause eye, skin, or resp of the best of our knowledge of 3. Composition ents (Chemical Name)/	r Disposal informatio the mucous membra n, ingestion, or skin a piratory system irritat e, the toxicological p	not classifiable ac n. nes and upper res absorption. ion. roperties have not	spiratory tract. t been thoroughly investigate	



Revision: 12/02/2016

		Section 4. First Aid Measures
4.1	Description of First Aid	
	Measures:	
	In Case of Inhalation:	Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Get immediate medical attention.
	In Case of Skin Contact:	Immediately wash skin with soap and plenty of water for at least 15 minutes. Remove contaminated clothing. Get medical attention if symptoms occur. Wash clothing before reuse.
	In Case of Eye Contact:	Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Have eyes examined and tested by medical personnel.
	In Case of Ingestion:	Wash out mouth with water provided person is conscious. Never give anything by mouth to an unconscious person. Get medical attention. Do NOT induce vomiting unless directed to do so by medical personnel.
		Section 5. Fire Fighting Measures
5.1	Suitable Extinguishing	Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray.
	Media:	Use water spray to cool fire-exposed containers.
	Unsuitable Extinguishing Media:	g A solid water stream may be inefficient.
5.2	Flammable Properties ar Hazards:	ıdNo data available.
		No data available.
	Flash Pt:	No data.
	Explosive Limits:	LEL: No data. UEL: No data.
	Autoignition Pt:	No data.
5.3	Fire Fighting Instruction	s: As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent), and full protective gear to prevent contact with skin and eyes.
		Section 6. Accidental Release Measures
6.1	Protective Precautions,	Avoid raising and breathing dust, and provide adequate ventilation.
		d As conditions warrant, wear a NIOSH approved self-contained breathing apparatus, or respirator,
	Emergency Procedures:	
6.2	Environmental	Take steps to avoid release into the environment, if safe to do so.
	Precautions:	
6.3		r Contain spill and collect, as appropriate. ngTransfer to a chemical waste container for disposal in accordance with local regulations.
	Up:	
	•	Section 7. Handling and Storage
7.1	in Handling:	<ul> <li>Avoid breathing dust/fume/gas/mist/vapours/spray.</li> <li>Avoid prolonged or repeated exposure.</li> </ul>
7.2		Keep container tightly closed.
1.2	in Storing:	Store in accordance with information listed on the product insert.
	Sec	tion 8. Exposure Controls/Personal Protection
8.1	Exposure Parameters:	

Multi-region format



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	HEMICAL						
8.2	Exposure Controls:						
8.2.1	Engineering Controls	Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne					
	(Ventilation etc.):	levels below recommended exposure limits.					
8.2.2	Personal protection equipment:						
	Eye Protection: Safety glasses						
	Protective Gloves:	atible chemical-resistant gloves					
	Other Protective Clothing:Lab coat						
	Respiratory Equipment	H approved respirator, as conditions warrant.					
	(Specify Type):						
	Work/Hygienic/Maintenan Do not take internally.						
		Facilities storing or utilizing this material should be equipped with an eyewash and a safety shower.					
	,	Wash thoroughly after handling.					
		No data available.					
	Se	ection 9. Physical and Chemical Properties					
9.1		cal and Chemical Properties					
	Physical States:	[]Gas []Liquid [X]Solid					
	Appearance and Odor:	A solid					
	pH:	No data.					
	Melting Point:	No data.					
	Boiling Point:	No data.					
	Flash Pt:	No data.					
	Evaporation Rate:	No data.					
	Flammability (solid, gas):	No data available.					
	Explosive Limits:	LEL: No data. UEL: No data.					
	Vapor Pressure (vs. Air or	mm No data.					
	Hg):						
	Vapor Density (vs. Air = 1):	No data.					
	Specific Gravity (Water = 1	): No data.					
	Solubility in Water:	No data.					
	Solubility Notes:	Soluble in: DMSO (warm); water (warm);					
	Octanol/Water Partition	No data.					
	Coefficient:						
	Autoignition Pt:	No data.					
	Decomposition Temperatu	re: No data.					
	Viscosity:	No data.					
9.2	Other Information						
	Percent Volatile:	No data.					
	Molecular Formula & Weig	ht: C9H8D6N5O4P 293.3					



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			Section 10. Stability	and Reactiv	vity			
10.1	Reactivi	ty:	No data available.					
10.2	Stability	:	Unstable [ ] Stable [ X ]					
10.3	Stability	Note(s):	Stable if stored in accordance with information listed on the product insert.					
	Polymer	ization:	Will occur [ ] Will not occur [ X	]				
10.4	Conditio	ons To Avoid:	No data available.					
10.5	Incompa	atibility - Materials	strong oxidizing agents					
	To Avoid	d:						
10.6	Hazardous Decomposition or Byproducts:		carbon dioxide					
			carbon monoixde					
			nitrogen oxides					
			Section 11. Toxicolog	ical Informa	ation			
11.1	Informat	ion on	The toxicological effects of this prod	uct have not beer	n thoroughly st	udied.		
	Toxicolo	gical Effects:						
CAS	#	Hazardous Com	ponents (Chemical Name)	NTP	IARC	ACGIH	OSHA	
1020	719-94-1	Tenofovir-d6		n.a.	n.a.	n.a.	n.a.	
			Section 12. Ecologic	al Informat	ion	·	•	
12.1	Toxicity	:	Avoid release into the environment.					
	-		Runoff from fire control or dilution water may cause pollution.					
12.2	Persiste	nce and						
	Degrada	bility:						
12.3	-	bility: mulative	No data available.					
12.3	-	mulative	No data available.					
-	Bioaccu	mulative I:	No data available. No data available.					
12.4	Bioaccu Potentia Mobility	mulative I: in Soil:						
12.4	Bioaccu Potentia Mobility	mulative I: in Soil: of PBT and vPvB	No data available.					
12.4 12.5	Bioaccu Potentia Mobility Results assessm	mulative I: in Soil: of PBT and vPvB	No data available.					
12.4 12.5	Bioaccu Potentia Mobility Results assessm	mulative I: in Soil: of PBT and vPvB nent:	No data available. No data available. No data available.	Considerat	ions			
12.4 12.5 12.6	Bioaccu Potentia Mobility Results assessm Other ad	mulative I: in Soil: of PBT and vPvB nent: Iverse effects:	No data available. No data available.					
12.4 12.5 12.6	Bioaccu Potentia Mobility Results assessm Other ad	mulative I: in Soil: of PBT and vPvB nent: Iverse effects:	No data available. No data available. No data available. <b>Section 13. Disposal</b> Dispose in accordance with local, sta	ate, and federal re	egulations.			
12.4 12.5 12.6 13.1	Bioaccu Potentia Mobility Results assessm Other ad	mulative I: in Soil: of PBT and vPvB nent: Iverse effects: isposal Method:	No data available. No data available. No data available. Section 13. Disposal Dispose in accordance with local, sta Section 14. Transpo	ate, and federal re	egulations.			
12.4 12.5 12.6 13.1 14.1	Bioaccu Potentia Mobility Results assessm Other ad Waste D	mulative I: in Soil: of PBT and vPvB nent: Iverse effects: isposal Method: RANSPORT (US I	No data available. No data available. No data available. Section 13. Disposal Dispose in accordance with local, sta Section 14. Transpo DOT):	ate, and federal re	egulations.			
12.4 12.5 12.6 13.1 14.1	Bioaccu Potentia Mobility Results assessm Other ad Waste D LAND T	mulative I: in Soil: of PBT and vPvB nent: Iverse effects: isposal Method: RANSPORT (US I r Shipping Name:	No data available. No data available. No data available. Section 13. Disposal Dispose in accordance with local, sta Section 14. Transpo DOT):	ate, and federal re	egulations.			
12.4 12.5 12.6 13.1 14.1 D	Bioaccu Potentia Mobility Results assessm Other ad Waste D	mulative I: in Soil: of PBT and vPvB nent: Iverse effects: isposal Method: RANSPORT (US I r Shipping Name: d Class:	No data available. No data available. No data available. Section 13. Disposal Dispose in accordance with local, sta Section 14. Transpo DOT):	ate, and federal re	egulations.			
12.4 12.5 12.6 13.1 14.1 D	Bioaccu Potentia Mobility Results assessm Other ad Waste D LAND T DOT Prope OT Hazard	mulative I: in Soil: of PBT and vPvB nent: Iverse effects: isposal Method: RANSPORT (US I r Shipping Name: d Class: nber:	No data available. No data available. No data available. Section 13. Disposal Dispose in accordance with local, sta Section 14. Transpo DOT): Not dangerous goods.	ate, and federal re	egulations.			
12.4 12.5 12.6 13.1 14.1 D U 14.1	Bioaccu Potentia Mobility Results assessm Other ad Waste D LAND T OT Prope OT Hazard	mulative I: in Soil: of PBT and vPvB nent: Iverse effects: isposal Method: RANSPORT (US I r Shipping Name: d Class: nber: RANSPORT (Euro	No data available. No data available. No data available. Section 13. Disposal Dispose in accordance with local, sta Section 14. Transpo DOT): Not dangerous goods.	ate, and federal re	egulations.			
12.4 12.5 12.6 13.1 14.1 D 14.1 U 14.1	Bioaccu Potentia Mobility Results assessm Other ad Waste D LAND T OT Prope OT Hazard	mulative I: in Soil: of PBT and vPvB nent: Iverse effects: isposal Method: RANSPORT (US E r Shipping Name: d Class: nber: RANSPORT (Euro hipping Name:	No data available. No data available. No data available. Section 13. Disposal Dispose in accordance with local, sta Section 14. Transpo DOT): Not dangerous goods.	ate, and federal re	egulations.			
12.4 12.5 12.6 13.1 14.1 D U 14.1 A U	Bioaccu Potentia Mobility Results assessm Other ad Waste D LAND T OT Prope OT Hazard N/NA Nun LAND T	mulative I: in Soil: of PBT and vPvB hent: Iverse effects: isposal Method: RANSPORT (US I r Shipping Name: d Class: hber: RANSPORT (Euro hipping Name: r:	No data available. No data available. No data available. Section 13. Disposal Dispose in accordance with local, sta Section 14. Transpo DOT): Not dangerous goods.	ate, and federal re	egulations.			
13.1 14.1 D U 14.1 A U	Bioaccu Potentia Mobility Results assessm Other ad Waste D LAND T DOT Prope OT Hazard IN/NA Nun LAND T DR/RID Si	mulative I: in Soil: of PBT and vPvB hent: Iverse effects: isposal Method: RANSPORT (US I r Shipping Name: d Class: hber: RANSPORT (Euro hipping Name: r:	No data available. No data available. No data available. Section 13. Disposal Dispose in accordance with local, sta Section 14. Transpo DOT): Not dangerous goods.	ate, and federal re	egulations.			
12.4 12.5 12.6 13.1 14.1 D U 14.1 A U	Bioaccu Potentia Mobility Results assessm Other ad Waste D LAND T DOT Prope OT Hazard IN/NA Nun LAND T DR/RID Si	mulative I: in Soil: of PBT and vPvB hent: Iverse effects: isposal Method: RANSPORT (US I r Shipping Name: d Class: hber: RANSPORT (Euro hipping Name: r:	No data available. No data available. No data available. Section 13. Disposal Dispose in accordance with local, sta Section 14. Transpo DOT): Not dangerous goods.	ate, and federal re	egulations.			
12.4 12.5 12.6 13.1 14.1 D U 14.1 A U	Bioaccu Potentia Mobility Results assessm Other ad Waste D LAND T DOT Prope OT Hazard IN/NA Nun LAND T DR/RID Si	mulative I: in Soil: of PBT and vPvB hent: Iverse effects: isposal Method: RANSPORT (US I r Shipping Name: d Class: hber: RANSPORT (Euro hipping Name: r:	No data available. No data available. No data available. Section 13. Disposal Dispose in accordance with local, sta Section 14. Transpo DOT): Not dangerous goods.	ate, and federal re	egulations.			
12.4 12.5 12.6 13.1 14.1 D U 14.1 A U	Bioaccu Potentia Mobility Results assessm Other ad Waste D LAND T DOT Prope OT Hazard IN/NA Nun LAND T DR/RID Si	mulative I: in Soil: of PBT and vPvB hent: Iverse effects: isposal Method: RANSPORT (US I r Shipping Name: d Class: hber: RANSPORT (Euro hipping Name: r:	No data available. No data available. No data available. Section 13. Disposal Dispose in accordance with local, sta Section 14. Transpo DOT): Not dangerous goods.	ate, and federal re	egulations.			

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Cayman	

14.3 AIR TRANSPORT (ICAO/IATA):

ICAO/IATA Shipping Name: Not dangerous goods.

Transport in accordance with local, state, and federal regulations.

Information:

**Additional Transport** 

# Section 15. Regulatory Information

CAS #	Hazardous Com	ponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)	
1020719-94-1	Tenofovir-d6		No	No	No	
CAS # Hazardous Components (Chemical Name)		Other US EPA or \$	State Lists	•		
1020719-94-1	Tenofovir-d6		CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No			
Regulatory Info Statement:	ormation	This SDS was prepared in accordance with 29 CFR 1910.1200 and Regulation (EC) No.1272/2008.				
		Section 16. Oth	er Information	า		
Revision Date:		12/02/2016				
Additional Info	rmation About	No data available.				
This Product:						
Company Polic	y or Disclaimer:	DISCLAIMER: This information is currently available to us. However express or implied, with respect use. Users should make their or their particular purposes.	er, we make no warra to such information,	anty of merchantabilit and we assume no lia	y or any other warranty, ability resulting from its	