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		ig to Regulation (EC) No. 1907/2006 as amended by (EC) No. 2015/83						
	Section 1. I	Identification of the Substance/Mixture and of th	ne Company/Undertaking					
1	Product Code:	20774						
	Product Name:	Foscarnet (sodium salt)						
	Synonyms:	1,1-dihydroxy-1-oxide, phosphinecarboxylic ac	id, trisodium salt; Trisodium Phosphonoformat					
2	Relevant identified uses of the substance or mixture and uses advised against:							
	Relevant identified uses: For research use only, not for human or veterinary use.							
.3	Details of the Supplier of the Safety Data Sheet:							
	Company Name:	Cayman Chemical Company						
		1180 E. Ellsworth Rd. Ann Arbor, MI 48108						
	Web site address:	www.caymanchem.com						
	Information:	Cayman Chemical Company	+1 (734)971-3335					
4	Emergency telephone nun							
-	Emergency Contact:	CHEMTREC Within USA and Canada:	+1 (800)424-9300					
	Emergency contact.	CHEMTREC Outside USA and Canada:	+1 (703)527-3887					
		Castian O. Hamanda Idantifia						
		Section 2. Hazards Identifica	ation					
1	Classification of the Subst	tance or Mixture:						
	Germ Cell Mutagenicity,	Category 2						
	Toxic To Reproduction, Category 2							
	Specific Target Organ Toxicity (repeated exposure), Category 2							
2	Label Elements:							
2								
2	Label Elements:	Warning						
2	Label Elements: GHS Signal Word: GHS Hazard Phrases:	Warning						
2	Label Elements: GHS Signal Word: GHS Hazard Phrases: H341: Suspected of causi	Warning ng genetic defects.						
2	Label Elements: GHS Signal Word: GHS Hazard Phrases: H341: Suspected of causi H361: Suspected of dama	Warning ng genetic defects. aging fertility or the unborn child.						
2	Label Elements: GHS Signal Word: GHS Hazard Phrases: H341: Suspected of causi H361: Suspected of dama H373: May cause damage	Warning ng genetic defects. aging fertility or the unborn child. e to {kidney, oral} through prolonged or repeated exp	posure.					
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2	Label Elements: GHS Signal Word: GHS Hazard Phrases: H341: Suspected of causi H361: Suspected of dama H373: May cause damage GHS Precaution Phrases: P201: Obtain special instr P202: Do not handle until	Warning ng genetic defects. aging fertility or the unborn child. e to {kidney, oral} through prolonged or repeated exp s: uctions before use. all safety precautions have been read and understo						
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	HEMICAL							
2.3	Adverse Human Health		Material may be irritating to the mucous membranes and upper respiratory tract.					
	Effects and Symptoms:		May be harmful by inhalation, ingestion, or skin absorption. May cause damage to {kidney, oral} through prolonged or repeated exposure.					
			May cause eye, skin, or resp		ation.			
			Suspected of causing genetic					
			Suspected of damaging fertil	-				
			To the best of our knowledge	e, the toxicological p	properties have no	t been thoroughly investigated.		
		Sect	tion 3. Composition	/Information	on Ingredie	ents		
CAS	#/	Hazardous Com	oonents (Chemical Name)/	Concentration	EC No./	GHS Classification		
RTEC	S #	REACH Registra	tion No.		EC Index No.			
	5-09-1	Foscarnet (sodium s	salt)	100.0 %	695-653-7	Mutagen 2: H341		
SY820	00000				NA	Toxic Repro. 2: H361d		
						STOT (RE) 2: H373		
			Section 4. Fi	rst Aid Meas	sures			
4.1	Descrij Measu	otion of First Aid						
		e of Inhalation:	Pomovo to frach air. If not br	athing give artifici	ial respiration or gi	ve oxygen by trained personnel.		
	III Case				la respiration of gi	ve oxygen by trained personner.		
	In Case	e of Skin Contact:	Get immediate medical attention.					
	in case	of okin 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. Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Have eyes examined					
	In Case	e of Eye Contact:						
	in case	e of Lye contact.				o minutes. Have eyes examined		
	In Case	of Ingestion:	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 Me				
	Quital	- Fatin and a line of						
5.1		e Extinguishing	Use alcohol-resistant foam, o		-	i spray.		
	Media:		Use water spray to cool fire-exposed containers.					
	Unsuitable Extinguishing A solid water stream may be inefficient.							
	Media:							
5.2		-	dNo data available.					
	Hazard	S:						
			No data available.					
	Flash Pt:		No data.					
	Explosive Limits:		LEL: No data. UEL: No data.					
	Autoignition Pt:		No data.					
5.3	Fire Fig	ghting Instructions	s: As in any fire, wear self-cont	ained breathing app	paratus pressure-c	demand (NIOSH approved or		
			equivalent), and full protectiv	e gear to prevent c	contact with skin ar	nd eyes.		



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		Section 6. Accidental Release Measures
6.1	Protective Precautions,	Avoid breathing vapors and provide adequate ventilation.
	Protective Equipment and	As conditions warrant, wear a NIOSH approved self-contained breathing apparatus, or respirator,
	Emergency Procedures:	and appropriate personal protection (rubber boots, safety goggles, and heavy rubber gloves).
6.2	Environmental	Take steps to avoid release into the environment, if safe to do so.
	Precautions:	
6.3	Methods and Material For	Contain spill and collect, as appropriate.
	Containment and Cleaning	gTransfer to a chemical waste container for disposal in accordance with local regulations.
	Up:	
		Section 7. Handling and Storage
7.1	Precautions To Be Taken	Avoid breathing dust/fume/gas/mist/vapours/spray.
	in Handling:	Avoid prolonged or repeated exposure.
7.2	Precautions To Be Taken	Keep container tightly closed.
	in Storing:	Store in accordance with information listed on the product insert.
	Sect	ion 8. Exposure Controls/Personal Protection
8.1	Exposure Parameters:	
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 equip	oment:
	Eye Protection:	Safety glasses
	Protective Gloves:	Compatible chemical-resistant gloves
	Other Protective Clothing:	:Lab coat
	Respiratory Equipment	NIOSH approved respirator, as conditions warrant.
	(Specify Type):	
	Work/Hygienic/Maintenan	
	ce Practices:	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	Information on Basic Phys	ical 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.
		Multi-region formation



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	Specific G	ravity (Water =	1): No d	lata.						
Solubility in Water:		No data.								
	Solubility	Notes:	Soluble in: water;							
	Octanol/W	ater Partition	No d	lata.						
	Coefficient	t:								
	Autoignitio	on Pt:	No d	lata.						
	Decompos	ition Temperat	ure: No d	lata.						
	Viscosity:		No d	lata.						
9.2	Other Infor	mation								
	Percent Vo	platile:	No d	lata.						
	Molecular	Formula & Wei	aht: CO5	5P•3Na	192.0					
			-	ion 10 S	Stability and	Reactivit	V			
10.1	Reactivity:		No data ava		stability and	riodotivit	<u>y</u>			
10.2	Stability:		Unstable [
10.2	Stability N	ote(s):	-	-	dance with informa	tion listed on t	he product in	ort		
10.5	Polymeriza	. ,								
	-		Will occur [-	ot occur [X]					
10.4										
10.5	-	oility - Materials	 o Avoid: No data available. ity - Materials strong oxidizing agents 							
	To Avoid:									
10.6	Hazardous	5	carbon dioxi	ide						
	Decompos	ition or	carbon mon							
	Byproduct	s:		hosphorous oxides						
			sodium oxid	es						
			Sectio	n 11. To	oxicological	Informati	on			
11.1	Informatio	n on	The toxicolo	gical effects	of this product hav	ve not been th	oroughly stud	ied.		
	Toxicologi	cal Effects:	Foscarnet (s	sodium salt)	- Toxicity Data: Int	raperitoneal L	D50 (mouse):	384 mg/kg;		
	Chronic To	oxicological	Foscarnet (s	sodium salt)	- Investigated as a	drug.				
	Effects:	-	Only select Registry of Toxic Effects of Chemical Substances (RTECS) data is presented here.							
			See actual e	See actual entry in RTECS for complete information.						
			Foscarnet (s	sodium salt)	RTECS Number: S	SY8200000				
Carcir	nogenicity:									
CAS			nonanta (Ch			NTP	IARC	ACGIH	OSHA	
		azardous Com			ie <i>)</i>					
6358	35-09-1 F	oscarnet (sodiur	m salt)			n.a.	n.a.	n.a.	n.a.	
			Sect	ion 12. E	Ecological Ir	formatio	N			
12.1	Toxicity:		Avoid releas	se into the er	nvironment.					
			Runoff from	fire control of	or dilution water ma	ay cause pollu	tion.			
12.2	Persistenc	e and	No data ava	ilable.						
	Degradability:									
12.3	Bioaccum	ulative	No data ava	ilable.						
	Potential:									
12.4	Mobility in	Soil:	No data ava	uilable.						
12.5	-	PBT and vPvB	No data ava	ailable						
	assessme									
126			No data ava	ailabla						
12.6		erse effects:	No data ava	maple.						
1								84	lti roalan farmat	
1								Mu	Ilti-region format	



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		Section 13. Dispo	sal Consider	ations			
13.1 Waste I	Disposal Method:	Dispose in accordance with loc	cal, state, and federa	al regulations.			
		Section 14. Trar	nsport Inform	ation			
14.1 LAND	TRANSPORT (US	DOT):					
DOT Prope	er Shipping Name	: Not dangerous goods.					
DOT Haza	rd Class:						
UN/NA Nu	mber:						
	TRANSPORT (Eur						
ADR/RID S UN Numbe	Shipping Name: er:	Not dangerous goods.					
Hazard Cla							
	ANSPORT (ICAO/	•					
	A Shipping Name:						
Additional Tra	insport	Transport in accordance with I	ocal, state, and fede	eral regulations.			
		Section 15 Dec	latory laform	ation			
		Section 15. Regu	•	alion			
EPA SARA (Se CAS #	-	nents and Reauthorization Act	-	S. 304 RQ	S. 313 (TRI)		
63585-09-1	Foscarnet (sodiu	nponents (Chemical Name)	S. 302 (EHS)	No	No		
	· ·	-					
CAS # 63585-09-1		ponents (Chemical Name) Other US EPA or State Lists					
63585-09-1	Foscarnet (sodiu	m salt) CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No					
Regulatory Inf Statement:	ormation	This SDS was prepared in acc No.1272/2008.	ordance with 29 CF	R 1910.1200 and R	egulation (EC)		
		Section 16. Ot	her Informati	on			
Revision Date:	:	09/01/2018					
Additional Info This Product:	ormation About	No data available.					
Company Policy or Disclaimer:		DISCLAIMER: This information currently available to us. Howe		-			
		express or implied, with respect to such information, and we assume no liability resulting from its					
		use. Users should make their own investigations to determine the suitability of the information fo their particular purposes.					
		their particular purposes.					