

Revision: 10/16/2014

		entification of the Substance/Mixture and of the	e Company/Ondertaking				
1	Product Code: 15402						
	Product Name:	PSI-7977					
	Synonyms:	N-[[P(S),2'R]-2'-deoxy-2'-fluoro-2'-methyl-P-phe	nyl-5'-uridylyl]-L-alanine 1-methylethyl ester				
		Sofosbuvir; GI-7977;					
.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.						
1.3	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 numb						
	Emergency Contact:	CHEMTREC Within USA and Canada:	+1 (800)424-9300				
		CHEMTREC Outside USA and Canada:	+1 (703)527-3887				
2.1.1	Target Organ Systemic To	Section 2. Hazards Identifica nce or Mixture: Regulation (EC) No 1272/2008 [CLP]: oxicity (repeated exposure), Category 2					
2.1 2.1.1 2.1.2	Classification according to Target Organ Systemic To Classification according to Risk Phrases: R33 For full text of R- phrases: Label Elements:	Section 2. Hazards Identifica nce or Mixture: Regulation (EC) No 1272/2008 [CLP]: oxicity (repeated exposure), Category 2 Directive 1999/45/EC: : see SECTION 15.					
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2.1.1 2.1.2 2.2	Classification according to Target Organ Systemic To Classification according to Risk Phrases: R33 For full text of R- phrases: Label Elements: Labeling according to Regu GHS Signal Word:	Section 2. Hazards Identifica nce or Mixture: Regulation (EC) No 1272/2008 [CLP]: oxicity (repeated exposure), Category 2 Directive 1999/45/EC: : see SECTION 15.					
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2.1.1 2.1.2 2.2	Classification according to Target Organ Systemic To Classification according to Risk Phrases: R33 For full text of R- phrases: Label Elements: Labeling according to Regu GHS Signal Word: GHS Hazard Phrases: H373: May cause damage to GHS Precaution Phrases: P260: Do not breathe {dust/full	Section 2. Hazards Identifica nce or Mixture: Regulation (EC) No 1272/2008 [CLP]: oxicity (repeated exposure), Category 2 Directive 1999/45/EC: : see SECTION 15. ulation (EC) No 1272/2008 [CLP]: Warning {Hematological system, gasterointestinal tract} thro ume/gas/mist/vapours/spray}.	ition				
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2.2.2	Labelin	g according to Di	rective 1999/45/EC:			
2.3	 2 Labeling according to Directive 1999/45/EC: Adverse Human Health Effects and Symptoms: May be irritating to the mucous membranes and upper respiratory tract. May be harmful by inhalation, ingestion, or skin absorption. May cause damage to {Hematological system, gasterointestinal tract} through prolonged or repeated exposure. May cause eye, skin, or respiratory system irritation. To the best of our knowledge, the toxicological properties have not been thoroughly investigation. 					
		Sect	ion 3. Composition	/Information	on Ingredie	nts
CAS # RTEC		Hazardous Comp REACH Registrat	oonents (Chemical Name)/ tion No.	Concentration	EC No./ EC Index No.	Risk Phrases/ GHS Classification
11903 NA	07-88-0	N-[[P(S),2'R]-2'-deo> -uridylyl]-L-alanine 1	ky-2'-fluoro-2'-methyl-P-phenyl-5' -methylethyl ester	100.0 %	NA NA	R33 TOST (RE) 2: H373
			Section 4 Fit	at Aid Maaa		
4.1	Descrip	tion of First Aid	Section 4. Fir No data available.	St Alu Meast	lies	
		of Inhalation:	Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Get immediate medical attention. Immediately wash skin with soap and plenty of water for at least 15 minutes. Remove contaminate			
		of Eye Contact:	clothing. Get medical attention	n if symptoms occur	. Wash clothing b	
	and tested by medical personIn Case of Ingestion:Wash out mouth with water p			nel. rovided person is cc	nscious. Never g	
			Section 5. Fire	Fighting Mea	asures	
5.1	Media:	e Extinguishing ble Extinguishing				
5.2	Flamma Hazards	-	d No data available.			
	Flash P Explosi	t: ve Limits:	No data. LEL: No data.	UEL: No da	ata.	
	Autoign	ition Pt:	No data.			
5.3	Fire Fig	hting Instructions	: As in any fire, wear self-conta equivalent), and full protective			



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			Section 6. Acc	cidental Relea	se Measures	
6.1	Protecti	ive Precautions, ive Equipment an ncy Procedures:	d As conditions warran	t, wear a NIOSH appr	de adequate ventilation. oved self-contained breathing r boots, safety goggles, and h	
6.2	EnvironmentalTake steps to avoid release into the environment, if safe to do so.Precautions:					
6.3			r Contain spill and coll ngTransfer to a chemic		disposal in accordance with lo	ocal regulations.
			Section 7.	Handling and	l Storage	
7.1	Precaut in Hand		Avoid breathing dust/ Avoid prolonged or re		s/spray.	
7.2	Precaut in Stori		Keep container tightly Store in accordance v	v closed. with information listed	on the product insert.	
			tion 8. Exposu	re Controls/Pe	ersonal Protection	
8.1 CAS ;	-	e Parameters: Partial Chemical	Namo	Britain EH40	France VL	Europe
			eoxy-2'-fluoro-2'-meth dylyl]-L-alanine	No data.	No data.	No data.
CAS	#	Partial Chemical	Name	OSHA TWA	ACGIH TWA	Other Limits
11903	307-88-0	N-[[P(S),2'R]-2'-d yl-P-phenyl-5'-urio 1-methylethyl este		No data.	No data.	No data.
8.2 8.2.1 8.2.2	Exposure Controls: Engineering Controls Use process enclosures, local exhaust ventilation, or other engineering controls to control airbor (Ventilation etc.): levels below recommended exposure limits. Personal protection equipment:					
	Eye Protection:Safety glassesProtective Gloves:Compatible chemical			resistant gloves		
	Other Protective Clothing: Lab coat Respiratory Equipment NIOSH approved respirator, as conditions warrant. (Specify Type):					
	Work/H ce Prac		 Do not take internally Facilities storing or ut Wash thoroughly afte No data available. 	ilizing this material she	ould be equipped with an eyev	vash and a safety show

Multi-region format



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	Se	ection 9. Physical and Chemical Properties					
9.1	9.1 Information on Basic Physical and Chemical Properties						
	Physical States: [] Gas [] Liquid [X] Solid						
	Appearance and Odor:	A crystalline solid					
	Melting Point:	No data.					
	Boiling Point:	No data.					
	Flash Pt:	No data.					
	Evaporation Rate:	No data.					
	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:	~0.2 mg/ml in PBS (pH 7.2); ~25 mg/ml in EtOH; ~20 mg/ml in DMSO & DMF;					
	Autoignition Pt:	No data.					
9.2	Other Information						
	Percent Volatile:	No data.					
	Molecular Formula & Weig	ght: C22H29FN3O9P 529.5					
		Section 10. Stability and Reactivity					
10.1	Reactivity:	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.					
	Polymerization:	Will occur [] Will not occur [X]					
10.4	Conditions To Avoid:	No data available.					
10.5	Incompatibility - Materials						
	To Avoid:						
10.6	Hazardous	carbon dioxide					
	Decomposition Or	carbon monoxide					
	Byproducts:	nitrogen oxides					
	lu fa ma a tha an a	Section 11. Toxicological Information					
11.1	Information on	The toxicological effects of this product have not been thoroughly studied.					
Caral	Toxicological Effects:	NTR2 No. JARC Managraphe2 No. OSUA Degulated 2 No.					
Carcin	nogenicity:	NTP? No IARC Monographs? No OSHA Regulated? No					
		Section 12. Ecological Information					
12.1	Toxicity:	Avoid release into the environment.					
		Runoff from fire control or dilution water may cause pollution.					
12.2	Persistence and	No data available.					
	Degradability:						
12.3	Bioaccumulative	No data available.					
	Potential:						
12.4	Mobility in Soil:	No data available.					
12.5	Results of PBT and vPvB	No data available.					
	assessment:						
							
		Multi-region forma					



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13.1 Waste Di	isposal Method:	Dispose in accordance with local	Latata and fadaral					
		13.1 Waste Disposal Method: Dispose in accordance with local, state, and federal regulations.						
	Section 14. Transport Information							
14.1 LAND T	RANSPORT (US I	DOT):						
DOT Proper DOT Hazaro UN/NA Num		Not dangerous goods.						
14.1 LAND TH	RANSPORT (Euro	opean ADR/RID):						
ADR/RID Sh UN Number Hazard Clas		Not dangerous goods.						
14.3 AIR TRA	NSPORT (ICAO/I	ATA):						
ICAO/IATA	Shipping Name:	Not dangerous goods.						
Additional Tran	nsport	Transport in accordance with loc	cal, state, and feder	al regulations.				
		Section 15. Regula	atory Informa	ation				
EPA SARA (Su	perfund Amendm	ents and Reauthorization Act o	of 1986) Lists					
CAS #	Hazardous Com	ponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)			
		eoxy-2'-fluoro-2'-methyl-P-pheny nine 1-methylethyl ester	No	No	No			
CAS #	AS # Hazardous Components (Chemical Name) Other US EPA or State Lists							
1190307-88-0								
European Com	munity Hazard S	ymbol codes:						
European Com	munity Risk and	Safety Phrases:						
R33	C	Danger of cumulative effects.						
S24/25	A	Avoid contact with skin and eyes.						
S36/37/39								
Regulatory Info	rmation	This SDS was prepared in accor 67/548/EEC as amended.	dance with Regulat	ion (EC) No.1272/2	2008 and European Directiv			
		Section 16. Oth	er Informatio	on				
Revision Date:		10/16/2014						
Additional Infor	mation About	No data available.						
This Product:								
Company Policy	y or Disclaimer:	DISCLAIMER: This information is	s believed to be ac	curate and represe	nts the best information			
		currently available to us. However express or implied, with respect use. Users should make their ow their particular purposes.	to such information	, and we assume n	o liability resulting from its			
					Multi-region form			