

SAFETY DATA SHEET Teniposide

		ording to Regulation (EC) No. 1907/2006 as amended by					
	Section 1.	dentification of the Substance/Mixture and of t	the Company/Undertaking				
.1	Product Code: 14425						
	Product Name:	Teniposide					
	Synonyms:	(5R,5aR,8aR,9S)-5,8,8a,9-tetrahydro-5-(4-hydroxy-3,5-dimethoxyphenyl)-9-[[4,6-O-[(R)-2-thien					
	lmethylene]betaD-glucopyranosyl]oxy]-furo[3',4':6,7]naphtho[2,3-d]-1,3-dioxol-6(5a⊢ NSC 122819; VM-26;						
1.2	Relevant identified uses of the substance or mixture and uses advised against:						
	Relevant identified uses	For research use only, not for human or veter	inary 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				
1.4	Emergency telephone nur	nber:					
	Emergency Contact:	CHEMTREC Within USA and Canada:	+1 (800)424-9300				
		CHEMTREC Outside USA and Canada:	+1 (703)527-3887				
		Section 2. Hazards Identific	cation				
2.1	Classification of the Subs	tance or Mixture:					
	Carcinogenicity, Catego	ry 1B					
2.2	Label Elements:						
	GHS Signal Word: Danger						
	GHS Hazard Phrases:						
	H350: May cause cancer.						
	GHS Precaution Phrase	GHS Precaution Phrases:					
	P201: Obtain special instructions before use.						
	P202: Do not handle until all safety precautions have been read and understood.						
	P280: Wear {protective gloves/protective clothing/eye protection/face protection}.						
	GHS Response Phrases:						
	P308+313: IF exposed or concerned: Get medical attention/advice.						
	GHS Storage and Disposal Phrases:						
	Please refer to Section 7 for Storage and Section 13 for Disposal information.						
2.3	Adverse Human Health	Material may be irritating to the mucous membrar	nes and upper respiratory tract.				
	Effects and Symptoms:	May be harmful by inhalation or skin absorption.					
	May cause eye, skin, or respiratory system irritation.						
	May cause cancer.						
	To the best of our knowledge, the toxicological properties have not been thoroughly investigated.						



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Section 3. Composition/Information on Ingredients								
CAS #		Hazardous Comp REACH Registra	oonents (Chemical Name)/ tion No.	Concentration	EC No./ EC Index No.	GHS Classification		
29767-20-2 KC0180000		Teniposide		100.0 %	249-831-2 NA	Carcinogen 1B: H350		
			Section 4. Fi	rst Aid Measu	ires			
4.1	Descrip	otion of First Aid						
Measures: In Case of Inhalation: In Case of Skin Contact:		es:						
		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 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 and tested by medical personnel. 					
		of Skin Contact:						
	In Case of Eye Contact:							
In Case of Ingestion:		e 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 Mea	sures			
5.1	Suitabl	e Extinguishing	Use alcohol-resistant foam, c	arbon dioxide, water	, or dry chemical	spray.		
	Media:		Use water spray to cool fire-e	exposed containers.				
	Unsuita	Unsuitable Extinguishing A solid water stream may be inefficient.						
	Media:							
5.2		-	dNo data available.					
Hazards: No data available.								
	Flash F	Pt:	No data.					
	Explos	ive Limits:	LEL: No data.	UEL: No da	ta.			
	Autoig	nition Pt:	No data.					
5.3	Fire Fig	hting Instructions	s: As in any fire, wear self-conta	ained breathing appa	ratus pressure-de	emand (NIOSH approved or		
equivalent), and full protective gear to prevent contact with skin and eyes.			d eyes.					
			Section 6. Acciden	tal Release N	leasures			
6.1	Protect	ive Precautions,	Avoid raising and breathing	dust, and provide ade	equate ventilation	I		
	Protect	ive Equipment an	d As conditions warrant, wear	a NIOSH approved s	elf-contained bre	athing apparatus, or respirator,		
	Emerge	ency Procedures:	and appropriate personal pro	otection (rubber boot	s, safety goggles,	and heavy rubber gloves).		
6.2	Enviror Precau	nmental tions:	Take steps to avoid release	into the environment	, if safe to do so.			
6.3 Methods and Material For Contain spill and collect, as appr		appropriate.						
	Contair	Containment and CleaningTransfer to a chemical waste container for disposal in accordance with local regulations.						
	Up:							
			Section 7. Har	ndling and Sto	orage			
7.1	Precau	tions To Be Taken	Avoid breathing dust/fume/ga	as/mist/vapours/spray	/.			
	in Hand	dling:	Avoid prolonged or repeated	exposure.				
7.2	Precau	tions To Be Taken	Keep container tightly closed					
	in Stori	ng:	Store in accordance with info	rmation listed on the	product insert.			
						Multi-region format		



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8.2	Exposure Parameters:					
	Evene Controlo					
	Exposure Controls:					
8.2.1		Use process enclosures, local exhaust ventilation, or other engineering controls to control airborn levels below recommended exposure limits.				
8.2.2	Personal protection equipment:					
	Eye Protection: S	ty glasses				
	Protective Gloves: C	patible chemical-resistant gloves				
	Other Protective Clothing:Lab coat					
	Respiratory Equipment N	IOSH approved respirator, as conditions warrant.				
	(Specify Type):					
	Work/Hygienic/Maintenan D	o not take internally.				
		acilities storing or utilizing this material should be equipped with an eyewash and a safety shower.				
		/ash thoroughly after handling.				
	N	o data available.				
	Sec	ction 9. Physical and Chemical Properties				
9.1	Information on Basic Physic	al and Chemical Properties				
	Physical States:	[]Gas []Liquid [X]Solid				
	Appearance and Odor:	A crystalline 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 m	nm No data.				
	Hg):					
	Vapor Density (vs. Air = 1):	No data.				
	Specific Gravity (Water = 1):					
	Solubility in Water:	No data.				
	Solubility Notes:	~0.5 mg/ml in a 1:1 solution of DMSO:PBS (pH 7.2); ~5 mg/ml in DMSO & DMF;				
	Octanol/Water Partition	No data.				
	Coefficient:					
	Autoignition Pt:	No data.				
	Decomposition Temperature					
• •	Viscosity: Other Information	No data.				
9.2	Percent Volatile:	No data.				
	Molecular Formula & Weigh	t: C32H32O13S 656.7				

Multi-region format



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			Section 10. Stability and	Reactivi	ty			
10.1	Reactivit	y:	No data available.					
10.2	Stability	:	Unstable [] Stable [X]					
0.3	Stability	Note(s):	Stable if stored in accordance with informa	ation listed on	the product	insert.		
	Polymer	ization:	Will occur [] Will not occur [X]					
10.4	Conditio	ns To Avoid:	No data available.					
10.5	Incompa	atibility - Materials strong oxidizing agents						
	To Avoid:							
10.6	Hazardo	us	carbon dioxide					
	Decomp	osition or	carbon monoxide					
	Byprodu	cts:	sulfur oxides					
			Section 11. Toxicological	Informat	ion			
11.1	Informat	ion on	The toxicological effects of this product ha	ve not been t	horoughly stu	udied.		
	Toxicolo	gical Effects:	Teniposide - Toxicity Data: Oral TDLO (hu	man): 9579 n	ng/kg; Intrape	eritoneal LD17	' (rat): 50 mg/kg	
			Intraperitoneal LD50 (mouse): 29570 µg/kg	g; Subcutane	ous LD50 (m	ouse): 31560	µg/kg;	
	Chronic	Toxicological	Teniposide - Investigated as a drug, mutag	gen, natural p	roduct, repro	ductive effected	or, and	
	Effects:		tumorigen.					
			Only select Registry of Toxic Effects of Ch	emical Substa	ances (RTEC	CS) data is pre	esented here.	
			See actual entry in RTECS for complete in	formation.				
			Teniposide RTECS Number: KC0180000					
CAS #		Hazardous Com	ponents (Chemical Name)	NTP	IARC	ACGIH	OSHA	
2976	67-20-2	Teniposide		?	2A	n.a.	n.a.	
			Section 12. Ecological Ir	nformatio	n			
12.1	Toxicity:		Avoid release into the environment.					
			Runoff from fire control or dilution water may cause pollution.					
12.2	Persiste	nce and	No data available.					
	Degrada	bility:						
12.3								
	Potentia	:	No data available.					
12.4								
12.4	Mobility	in Soil:	No data available.					
12.4 12.5	Mobility Results	in Soil: of PBT and vPvB						
12.5	Mobility Results assessm	in Soil: of PBT and vPvB ent:	No data available. No data available.					
	Mobility Results assessm	in Soil: of PBT and vPvB	No data available. No data available. No data available.		000			
12.5	Mobility Results assessm Other ad	in Soil: of PBT and vPvB ent:	No data available. No data available. No data available. Section 13. Disposal Con					



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		Section 14. Trar	nsport Informa	tion		
14.1 LAND	TRANSPORT (US	DOT):				
DOT Proper Shipping Name		: Medicine, solid, toxic, n.o.	s. (Teniposide)			
DOT Hazard Class:		6.1 POISON				
UN/NA Number:		UN3249	Packing Gro	up:	III	
		POISON 6				
14.1 LAND	TRANSPORT (Eur	opean ADR/RID):				
ADR/RID S	Shipping Name:	Medicine, solid, toxic, n.o.	s. (Teniposide)			
UN Numbe	er:	3249	Packing Gro	up:	111	
Hazard Cla	ass:	6.1 - POISON				
14.3 AIR TR	ANSPORT (ICAO/	IATA):				
	A Shipping Name:	Medicine, solid, toxic, n.o.				
UN Numbe		3249	Packing Gro	-	 0.1	
Hazard Cla		6.1 - POISON	IATA Classif		6.1	
Additional Transport Information:		Transport in accordance with local, state, and federal regulations. When sold in quantities of less than or equal to 1 mL, or 1 g, with an Excepted Quantity Code of E1, E2, E4, or E5, this item meets the De Minimis Quantities exemption, per IATA 2.6.10. Therefore packaging does not have to be labeled as Dangerous Goods/Excepted Quantity.				
		Section 15. Regu		-		
		· ·	•			
CAS #	1	nents and Reauthorization Act	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)	
29767-20-2	Teniposide		No	No	No	
CAC #		nenente (Chemical Neme)		State Lists		
CAS # 29767-20-2	Teniposide	ponents (Chemical Name)	Other US EPA or State Lists CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA			
			PROP.65: Yes: RDTox.			
Regulatory Inf Statement:	ormation	This SDS was prepared in acc No.1272/2008.	cordance with 29 CFR	1910.1200 and Re	egulation (EC)	
		Section 16. Ot	ther Informatio	n		
Revision Date:		05/08/2018				
Additional Info This Product:	ormation About	No data available.				
Company Policy or Disclaimer:		DISCLAIMER: This information is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty 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 for				
		their particular purposes.	own investigations to	determine the suit	adility of the information fo	