

	Revision:	03/20/2019
Supersedes	Revision:	12/18/2014

	accordir	ng to Regulation (EC) No. 1907/2006 as amended by (EC) No. 2015/83	0 and US OSHA HCS 2015			
	Section 1.	Identification of the Substance/Mixture and of th	ne Company/Undertaking			
1.1	Product Code: Product Name: Synonyms:	15632 SN 38 4,11-diethyl-4,9-dihydroxy-(4S)-1H-pyrano[3',4 e; 7-ethyl-10-hydroxy-20(S)-Camptothecin; 7-E				
1.2	2 Relevant identified uses of the substance or mixture and uses advised against:					
	Relevant identified uses	: For research use only, not for human or vetering	nary use.			
1.3	Details of the Supplier of t	he 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: CHEMTREC Outside USA and Canada:	+1 (800)424-9300 +1 (703)527-3887			
		Section 2. Hazards Identification	ation			
2.1	Classification of the Subs	tance or Mixture				
	GHS Signal Word: GHS Hazard Phrases: H301: Toxic if swallowed.	Danger				
	GHS Precaution Phrase	s				
	P264: Wash {hands} thore					
	GHS Response Phrases:					
	P301+310: IF SWALLOW P330: Rinse mouth.	ED: Immediately call a POISON CENTER or doctor	r/physician.			
	GHS Storage and Dispo					
		for Storage and Section 13 for Disposal information.				
2.3	Adverse Human Health Effects and Symptoms:	Material may be irritating to the mucous membrane May be harmful by inhalation or skin absorption. May cause eye, skin, or respiratory system irritatio Toxic if swallowed.				
		To the best of our knowledge, the toxicological pro	perties have not been thoroughly investigated			



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		Sect	tion 3. Composition	/Information	on Ingredie	nts			
CAS RTEC	-	Hazardous Comp REACH Registra	oonents (Chemical Name)/ tion No.	Concentration	EC No./ EC Index No.	GHS Classification			
	86639-52-3 7-Ethyl-10-hydroxyca UQ0491000		amptothecin	100.0 %	643-093-9 NA	Acute Tox.(O) 3: H301			
	Section 4. First Aid Measures								
4.1	Descrip	tion of First Aid							
	Measur	es:							
	In Case	of Inhalation:	Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel.						
			Get immediate medical attent	tion.					
	In Case	of Skin Contact:	Immediately wash skin with soap and plenty of water for at least 15 minutes. Remove contaminated						
			clothing. Get medical attentio		-				
	In Case	of Eye Contact:			water for at least 1	5 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						
			-	dical attention. Do N	NOT induce vomiti	ng unless directed to do so by			
			medical personnel.						
			Section 5. Fire	Fighting Me	asures				
5.1	Suitable	e Extinguishing	Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray.						
	Media:		Use water spray to cool fire-exposed containers.						
	Unsuita	ble Extinguishing	A solid water stream may be	inefficient.					
	Media:								
5.2	Flamma Hazarda	-	<b>d</b> No data available.						
	nazaru.	5.	No data available.						
	Flash P	t:	No data.						
	Explosi	ve Limits:	LEL: No data.	UEL: No d	ata.				
	-	nition Pt:	No data.						
5.3	-		: As in any fire, wear self-cont	ained breathing app	paratus pressure-d	emand (NIOSH approved or			
			equivalent), and full protectiv		-				
			Section 6. Accider	tal Release	Measures	-			
<b>6</b> .1	Protoct	ive Precautions,	Avoid raising and breathing						
0.1			• •	•	•	eathing apparatus, or respirator,			
		ency Procedures:	and appropriate personal pro						
6.2	-	mental	Take steps to avoid release	-					
0.2	Precau								
6.3			r Contain spill and collect, as	appropriate					
					osal in accordance	with local regulations.			
	Containment and CleaningTransfer to a chemical waste container for disposal in accordance with local regulations. Up:					J			
			Section 7. Har	ndling and St	orade				
<b></b> 7.1	Drocovi	tions To Bo Takar	Avoid breathing dust/fume/ga						
'·'	in Hanc		Avoid breathing dustrume/ga		ay.				
7.2				-					
'. <b>2</b>	in Stori		en Keep container tightly closed. Store in accordance with information listed on the product insert.						
						Maria:			
						Multi-region format			



	Secti	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	Do not take internally.			
	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		ical 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	mm No data.			
	Hg):				
	Vapor Density (vs. Air = 1)	: No data.			
	Specific Gravity (Water = 1	1): No data.			
	Solubility in Water:	No data.			
	Solubility Notes:	~0.3 mg/ml in a 1:2 solution of DMSO:PBS (pH 7.2); ~2 mg/ml in DMSO; ~0.1 mg/ml in			
		DMF;			
	Octanol/Water Partition	No data.			
	Coefficient:				
	Autoignition Pt:	No data.			
	Decomposition Temperatu	ure: No data.			
	Viscosity:	No data.			

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9.2	Other Info	ormation						
	Percent	Volatile:	No data.					
	Molecula	r Formula & Wei	ght: C22H20N2	O5 392.4				
			Section 1	0. Stability	and Reactiv	<b>rity</b>		
10.1	Reactivit	у:	No data available.					
10.2	Stability:		Unstable [ ] S	Stable [ X ]				
10.3								
	Polymerization: Will occur [ ] Will not occur [ X ]							
10.4	Conditio	ns To Avoid:	No data available.					
10.5	Incompa	tibility - Materials	s strong oxidizing ag	ents				
	To Avoid	:						
10.6	Hazardo	us	carbon dioxide					
	Decompo	osition or	carbon monoxide					
	Byprodu	cts:	nitrogen oxides					
			Section 11	. Toxicolog	ical Informa	tion		
11.1	Informati	ion on	The toxicological ef	ffects of this prod	uct have not been	thoroughly st	udied.	
	Toxicolo	gical Effects:						
CAS	#	Hazardous Com	ponents (Chemical	Name)	NTP	IARC	ACGIH	OSHA
	39-52-3	7-Ethyl-10-hydro>			n.a.	n.a.	n.a.	n.a.
0000	00 02 0						11.0.	11.4.
			Section 1	2. Ecologic	al Informati	on		
12.1	Toxicity:		Avoid release into t	the environment.				
			Runoff from fire cor	ntrol or dilution wa	ater may cause po	llution.		
12.2	Persister	nce and	No data available.					
	Degrada	bility:						
12.3	Bioaccur	nulative	No data available.					
	Potential	:						
12.4	Mobility	in Soil:	No data available.					
12.5	Results o	of PBT and vPvB	No data available.					
	assessm	ent:						
12.6	Other ad	verse effects:	No data available.					
			Section 13	3. Disposal	Consideration	ons		
13.1	Waste Di	sposal Method:	Dispose in accorda	ance with local, sta	ate, and federal re	gulations.		
			Section <sup>2</sup>	14. Transpo	ort Informati	on		
14.1	LAND T	RANSPORT (US I	DOT):					
D	OT Proper	Shipping Name:	Toxic solid, org	ganic, n.o.s. (7-Et	hyl-10-hydroxycan	nptothecin)		
D	OT Hazard	l Class:	6.1	POISON				
U U	IN/NA Num	iber:	UN2811		Packing Group	):	III	
			POISON 6					
							N	lulti-region format

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14.1 LAND	TRANSPORT (Eur	opean ADR/RID):					
ADR/RID S	Shipping Name:	Toxic solid, organic, n.o.s.	(7-Ethyl-10-hydroxyca	amptothecin)			
UN Numbe	er:	2811	Packing Gro	up:		Ш	
Hazard Cla	ass:	6.1 - POISON					
14.3 AIR TR	ANSPORT (ICAO	/IATA):					
	A Shipping Name:	•	(7-Ethyl-10-hydroxyca	amptothecin)			
UN Numbe		2811	Packing Gro			Ш	
Hazard Cla	ass:	6.1 - POISON	IATA Classification:			6.1	
Additional Tra	Insport	Transport in accordance with lo					
Information:	mepert	When sold in quantities of less		+	an Except	ted Quanti	tv Code of
		E1, E2, E4, or E5, this item me	-	-			-
		Therefore packaging does not					
		Section 15. Regu	latory Informa	tion		-	
EPA SARA (S	uperfund Amendr	nents and Reauthorization Act	•				
CAS #	1	nponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ		S. 313 (T	RI)
86639-52-3	7-Ethyl-10-hydro	oxycamptothecin	No	No		No	
CAS #	Hazardous Com	nponents (Chemical Name)	Other US EPA or	+ State Lists	I		
86639-52-3	7-Ethyl-10-hydro	xycamptothecin	CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No				
Regulatory Inf	ormation	This SDS was prepared in acco	ordance with 29 CFR	1910.1200 an	d Regulat	tion (EC)	
Statement:		No.1272/2008.					
		Section 16. Ot	her Informatio	n			
Revision Date:	:	03/20/2019					
Additional Info	ormation About	No data available.					
This Product:							
	cy or Disclaimer:	DISCLAIMER: This information	is believed to be acc	urate and rep	resents th	e best info	ormation
	,	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 fo					
		their particular purposes.					