

Multi-region format

Revision: 06/16/2018

.2 F	Product Code: Product Name: Synonyms:	,	p]furan-10,11-dione; DHTS; Dihydrotanshinor				
.2 F	Product Name: Synonyms: Relevant identified uses of Relevant identified uses Details of the Supplier of the Company Name: Web site address:	<ul> <li>15,16-Dihydrotanshinone I (1R)-1,2-dihydro-1,6-dimethyl-phenanthro[1,2-b</li> <li>f the substance or mixture and uses advised aga</li> <li>For research use only, not for human or veterin</li> <li>the Safety Data Sheet: Cayman Chemical Company 1180 E. Ellsworth Rd.</li> </ul>	ainst:				
.2 F .3 I	Synonyms: Relevant identified uses of Relevant identified uses Details of the Supplier of the Company Name: Web site address:	<ul> <li>(1R)-1,2-dihydro-1,6-dimethyl-phenanthro[1,2-b</li> <li>f the substance or mixture and uses advised aga</li> <li>For research use only, not for human or veterin</li> <li>the Safety Data Sheet:</li> <li>Cayman Chemical Company</li> <li>1180 E. Ellsworth Rd.</li> </ul>	ainst:				
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	Details of the Supplier of t Company Name: Web site address:	the Safety Data Sheet: Cayman Chemical Company 1180 E. Ellsworth Rd.	nary use.				
	Company Name: Web site address:	Cayman Chemical Company 1180 E. Ellsworth Rd.					
.4 E	Web site address:	1180 E. Ellsworth Rd.					
.4 E							
.4 E		Ann Arbor, MI 48108					
.4 E							
.4 E	information:	www.caymanchem.com	.4 (704)074 0005				
.4 E		Cayman Chemical Company	+1 (734)971-3335				
	Emergency telephone nur		4 (000) 404 0000				
	Emergency Contact:	CHEMTREC Within USA and Canada:	+1 (800)424-9300				
		CHEMTREC Outside USA and Canada:	+1 (703)527-3887				
		Section 2. Hazards Identifica	ation				
.1 (	Classification of the Subs	tance or Mixture:					
	Acute Toxicity: Oral, Ca	tegory 4					
	Aquatic Toxicity (Acute)						
.2 L	Label Elements:						
	GHS Signal Word:	Warning					
	GHS Hazard Phrases:						
	H302: Harmful if swallowed.						
	H400: Very toxic to aquatic life.						
	GHS Precaution Phrases:						
	P264: Wash {hands} thoroughly after handling.						
	P273: Avoid release to the environment.						
	GHS Response Phrases:						
	P301+312: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.						
	P330: Rinse mouth.						
	P391: Collect spillage.						
	GHS Storage and Disposal Phrases:						
	Please refer to Section 7 for Storage and Section 13 for Disposal information.						
		Harmful if swallowed.					
.3	Adverse Human Health						
-		Material may be irritating to the mucous membrane	s and upper respiratory tract.				
-	Adverse Human Health		s and upper respiratory tract.				
-	Adverse Human Health	Material may be irritating to the mucous membrane					
-	Adverse Human Health	Material may be irritating to the mucous membrane May be harmful by inhalation or skin absorption.					
-	Adverse Human Health	Material may be irritating to the mucous membrane May be harmful by inhalation or skin absorption. May cause eye, skin, or respiratory system irritation	n.				



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		azardous Comp	onents (Chemical Name)/	Concentration	EC No./	GHS Classification	
RTECS #REACH Registration87205-99-015,16-DihydrotanshiSF828263015,16-Dihydrotanshi		EACH Registrat	ion No.	100.0 %	EC Index No.		
		,16-Dihydrotanshir	none I		694-674-9 NA	Acute Tox.(O) 4: H302 Aquatic (A) 1: H400	
			Section 4. Fi	rst Aid Meas	ures		
4.1 Description of First Aid							
	Measures:						
	In Case of	Inhalation:	Remove to fresh air. If not br Get immediate medical atten		al respiration or giv	ve oxygen by trained personnel	
	In Case of	Skin Contact:	Immediately wash skin with s clothing. Get medical attention			5 minutes. Remove contaminate efore reuse.	
	In Case of Eye Contact: Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Have eyes exar and tested by medical personnel.						
	In Case of	Ingostion			onscious Novor a	ive anything by mouth to an	
	in case of	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 b medical personnel.					
			Section 5. Fire	Fighting Me	asures		
5.1 Suitable Extinguishing Media:		xtinguishing	Use alcohol-resistant foam, o Use water spray to cool fire-		-	spray.	
	Unsuitable Media:	Extinguishing	A solid water stream may be	-			
5.2		e Properties and	<b>I</b> No data available.				
			No data available.				
I	Flash Pt:		No data.				
	Explosive Limits:		LEL: No data. UEL: No data.				
Autoignition Pt: No data.							
5.3	Fire Fighti	hting Instructions: 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. Accider	ntal Release	Measures		
6.1	Protective	Precautions,	Avoid raising and breathing	dust, and provide a	dequate ventilatio	۱.	
	Protective	Equipment and	As conditions warrant, wear	a NIOSH approved	self-contained bre	eathing apparatus, or respirator	
	Emergenc	y Procedures:	and appropriate personal pr	otection (rubber boo	ots, safety goggles	, and heavy rubber gloves).	
6.2	Environme	ental	Take steps to avoid release	into the environmer	nt, if safe to do so.		
	Precautior	IS:					
6.3	Methods a	Methods and Material For Contain spill and collect, as appropriate.					
	Containme Up:	ontainment and CleaningTransfer to a chemical waste container for disposal in accordance with local regulations.					
			Section 7 Ha	ndling and St	torage		
					J -		
7 1	Precaution	s To Ro Takon		as/mist/vanours/sor	av		
7.1			Avoid breathing dust/fume/g		ay.		
	in Handlin	g:	Avoid breathing dust/fume/g Avoid prolonged or repeated	exposure.	ay.		
7.1	in Handlin	g: is To Be Taken	Avoid breathing dust/fume/g	exposure.			



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	Section	8. Exposure Controls/Personal Protection				
8.1	Exposure Parameters:					
8.2	Exposure Controls:					
8.2.1		process enclosures, local exhaust ventilation, or other engineering controls to control airborn				
	(Ventilation etc.): level	s below recommended exposure limits.				
8.2.2	Personal protection equipment:					
	Eye Protection: Safe	y glasses				
	Protective Gloves: Com	patible chemical-resistant gloves				
	Other Protective Clothing: Lab	coat				
	<b>Respiratory Equipment</b> NIOSH approved respirator, as conditions warrant.					
	(Specify Type):					
	Work/Hygienic/Maintenan Do n	ot take internally.				
	ce Practices: Facil	ties storing or utilizing this material should be equipped with an eyewash and a safety showe				
	Wasl	n thoroughly after handling.				
	No d	ata available.				
	Section	on 9. Physical and Chemical Properties				
9.1	Information on Basic Physical a	nd 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):	No data.				
	Solubility in Water:	No data.				
	Solubility Notes:	~0.2 mg/ml in DMSO & DMF;				
	Octanol/Water Partition	No data.				
	Coefficient:					
	Autoignition Pt:	No data.				
	Decomposition Temperature:	No data.				
	Viscosity:	No data.				
9.2	Other Information					
<b></b>	Percent Volatile:	No data.				
		C18H14O3 278.3				
	Molecular Formula & Weight:	01011405 270.5				



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	HEMTCAL		Section 10. Stability and	Reactivi	itv			
10.4	Deseth d	L. /.	•		ity			
10.1		Reactivity: No data available.						
10.2	Stability		Unstable [ ] Stable [ X ]					
10.3	Stability		Stable if stored in accordance with informa	ition listed on	the product	insert.		
	Polymer		Will occur [ ] Will not occur [ X ]					
10.4		ns To Avoid:	No data available.					
10.5			strong oxidizing agents					
	To Avoid:							
10.6	Hazardo	us	carbon dioxide carbon monoxide					
	=	osition or						
	Byprodu	icts:						
			Section 11. Toxicological	Informat	ion			
11.1	Informat	ion on	The toxicological effects of this product have	ve not been t	horoughly stu	udied.		
	Toxicolo	gical Effects:	15,16-Dihydrotanshinone I - Toxicity Data:	Oral TDLO (	mouse): 10 n	ng/kg;		
	Chronic	Toxicological	15,16-Dihydrotanshinone I - Investigated a	0	•			
	Effects:		Only select Registry of Toxic Effects of Ch		ances (RTEC	CS) data is pre	sented here.	
			See actual entry in RTECS for complete in					
			15,16-Dihydrotanshinone I RTECS Numbe	er: SF828263	0			
CAS			ponents (Chemical Name)	NTP	IARC	ACGIH	OSHA	
8720	05-99-0	15,16-Dihydrotan	shinone I	n.a.	n.a.	n.a.	n.a.	
			Section 12. Ecological Ir	nformatio	on			
12.1	Toxicity	:	Avoid release into the environment.					
			Runoff from fire control or dilution water ma	ay cause poll	lution.			
12.2	Persiste	nce and	No data available.					
	Degrada	bility:						
12.3	Bioaccu	mulative	No data available.					
	Potentia	I:						
12.4	Mobility	in Soil:	No data available.					
12.5	-		No data available.					
	assessm							
12.6		lverse effects:	No data available.					
	2			aidaratia				
13.1	Wasto D	isnosal Mathadi	Section 13. Disposal Con Dispose in accordance with local, state, ar					
	maste D	ารุษบริสา พิธิแาบน.	Section 14. Transport Ir					
			· · · · · ·		///			
14.1		RANSPORT (US [						
	-	r Shipping Name:	Not dangerous goods.					
	OT Hazar N/NA Nun							
_								
14.1		RANSPORT (Euro						
		hipping Name:	Environmentally hazardous substance					
-	N Number			king Group	:	III		
H	azard Cla	SS:	9 - CLASS 9					
						-	huldi namian fa	
						N	Iulti-region form	



### 14.3 AIR TRANSPORT (ICAO/IATA):

ICAO/IATA Shipping Name:	Environmentally hazardous substances, solid, n.o.s. (Dihydrotanshinone I)				
UN Number:	3077	Packing Group:	III		
Hazard Class:	9 - CLASS 9	IATA Classification:	9		
Additional Transport	Transport in accordance with local, state, and federal regulations.				
Information:	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. Regulatory Information

CAS # Hazardous Com		ponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)	
87205-99-0	205-99-0 15,16-Dihydrotanshinone I		No	No	No	
CAS #	Hazardous Com	ponents (Chemical Name)	nents (Chemical Name) Other US EPA or State Lists			
87205-99-0	15,16-Dihydrotar	nshinone I	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.	cordance with 29 CFF	R 1910.1200 and R	egulation (EC)	
		Section 16. Of	her Informatio	on		
Revision Date:	:	06/16/2018				
Additional Information About		No data available.				
This Product:						
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 fo their particular purposes.				