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Revision:	05/11/2015

	according to Regulation (EC) No. 1907/2006 as amended by (EC) No. 1272/2008					
	Section 1.	dentification of the Substance/Mixture and of th	e Company/Undertaking			
1.1	Product Code:	17646				
	Product Name:	Lasofoxifene (tartrate)				
	Synonyms:	(5R,6S)-5,6,7,8-tetrahydro-6-phenyl-5-[4-[2-(1-				
		(2S,3S)-2,3-dihydroxybutanedioate; CP 336,15	6;			
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 veterin	hary use.			
1.3	Details of the Supplier of the	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 num					
1.4	Emergency Contact:	CHEMTREC Within USA and Canada:	+1 (800)424-9300			
	Emergency Contact.	CHEMTREC Outside USA and Canada:	+1 (703)527-3887			
		Section 2. Hazards Identifica	ation			
2.1	<b>Classification of the Subst</b>	ance or Mixture:				
2.1.1	Classification according to	o Regulation (EC) No 1272/2008 [CLP]:				
	Serious Eye Damage/Eye Irritation, Category 1					
	Serious Eye Damage/Eye	e Irritation, Category 1				
	Toxic To Reproduction,	Category 1B				
	Toxic To Reproduction, ( Specific Target Organ To	Category 1B oxicity (single exposure), Category 1				
	Toxic To Reproduction, Specific Target Organ To Aquatic Toxicity (Chronic	Category 1B oxicity (single exposure), Category 1				
	Toxic To Reproduction, Specific Target Organ To Aquatic Toxicity (Chronic Label Elements:	Category 1B oxicity (single exposure), Category 1 c), Category 1				
2.2 2.2.1	Toxic To Reproduction, Specific Target Organ To Aquatic Toxicity (Chronic Label Elements:	Category 1B oxicity (single exposure), Category 1				
	Toxic To Reproduction, Specific Target Organ To Aquatic Toxicity (Chronic Label Elements:	Category 1B oxicity (single exposure), Category 1 c), Category 1				
	Toxic To Reproduction, C Specific Target Organ To Aquatic Toxicity (Chronic Label Elements: Labeling according to Reg	Category 1B exicity (single exposure), Category 1 c), Category 1 gulation (EC) No 1272/2008 [CLP]:				
	Toxic To Reproduction, G Specific Target Organ To Aquatic Toxicity (Chronic Label Elements: Labeling according to Reg GHS Signal Word:	Category 1B oxicity (single exposure), Category 1 c), Category 1				
	Toxic To Reproduction, G Specific Target Organ To Aquatic Toxicity (Chronic Label Elements: Labeling according to Reg GHS Signal Word: GHS Hazard Phrases:	Category 1B oxicity (single exposure), Category 1 c), Category 1 gulation (EC) No 1272/2008 [CLP]: Danger				
	Toxic To Reproduction, G Specific Target Organ To Aquatic Toxicity (Chronic Label Elements: Labeling according to Reg GHS Signal Word: GHS Hazard Phrases: H318: Causes serious eye	Category 1B exicity (single exposure), Category 1 c), Category 1 gulation (EC) No 1272/2008 [CLP]: Danger Danger				
	Toxic To Reproduction, of Specific Target Organ To Aquatic Toxicity (Chronic Label Elements: Labeling according to Reg Office According to Reg GHS Signal Word: GHS Hazard Phrases: H318: Causes serious eye H360: May damage fertility	Category 1B exicity (single exposure), Category 1 c), Category 1 gulation (EC) No 1272/2008 [CLP]: Danger Danger				
	Toxic To Reproduction, of Specific Target Organ To Aquatic Toxicity (Chronic Label Elements: Labeling according to Reg Office Signal Word: GHS Signal Word: GHS Hazard Phrases: H318: Causes serious eye H360: May damage fertility H370: Causes damage to	Category 1B exicity (single exposure), Category 1 c), Category 1 gulation (EC) No 1272/2008 [CLP]: Danger Danger e damage. y or the unborn child. organs.				
	Toxic To Reproduction, of Specific Target Organ To Aquatic Toxicity (Chronic Label Elements: Labeling according to Reg GHS Signal Word: GHS Hazard Phrases: H318: Causes serious eye H360: May damage fertility H370: Causes damage to H410: Very toxic to aquation	Category 1B exicity (single exposure), Category 1 c), Category 1 gulation (EC) No 1272/2008 [CLP]: Danger Danger e damage. y or the unborn child. organs. c life with long lasting effects.				
	Toxic To Reproduction, of Specific Target Organ To Aquatic Toxicity (Chronic Label Elements: Labeling according to Reg Office Signal Word: GHS Signal Word: GHS Hazard Phrases: H318: Causes serious eye H360: May damage fertility H370: Causes damage to H410: Very toxic to aquation GHS Precaution Phrases	Category 1B exicity (single exposure), Category 1 c), Category 1 gulation (EC) No 1272/2008 [CLP]: Danger Danger e damage. y or the unborn child. organs. c life with long lasting effects.				
	Toxic To Reproduction, G Specific Target Organ To Aquatic Toxicity (Chronic Label Elements: Labeling according to Reg GHS Signal Word: GHS Hazard Phrases: H318: Causes serious eye H360: May damage fertility H370: Causes damage to H410: Very toxic to aquatic GHS Precaution Phrases P201: Obtain special instru	Category 1B exicity (single exposure), Category 1 c), Category 1 gulation (EC) No 1272/2008 [CLP]: Danger Danger damage. y or the unborn child. organs. c life with long lasting effects. cutions before use.				
	Toxic To Reproduction, of Specific Target Organ To Aquatic Toxicity (Chronic Label Elements: Labeling according to Reg Office Content of the Content Content of the Content of the Content Content of the Content of the	Category 1B exicity (single exposure), Category 1 c), Category 1 gulation (EC) No 1272/2008 [CLP]: Danger Danger e damage. y or the unborn child. organs. c life with long lasting effects.	od.			
	Toxic To Reproduction, of Specific Target Organ To Aquatic Toxicity (Chronic Label Elements: Labeling according to Reg Office Signal Word: GHS Signal Word: GHS Hazard Phrases: H318: Causes serious eye H360: May damage fertility H370: Causes damage to H410: Very toxic to aquatio GHS Precaution Phrases P201: Obtain special instru- P202: Do not handle until a P260: Do not breathe {dust	Category 1B exicity (single exposure), Category 1 c), Category 1 gulation (EC) No 1272/2008 [CLP]: Danger Danger damage. y or the unborn child. organs. c life with long lasting effects. :: uctions before use. all safety precautions have been read and understootyt/fume/gas/mist/vapors/spray}.	od.			
	Toxic To Reproduction, of Specific Target Organ To Aquatic Toxicity (Chronic Label Elements: Labeling according to Reg Office Content of the Content GHS Signal Word: GHS Hazard Phrases: H318: Causes serious eye H360: May damage fertility H370: Causes damage to H410: Very toxic to aquatic GHS Precaution Phrases P201: Obtain special instruct P202: Do not handle until a P260: Do not breathe {dust P264: Wash {hands} thoro	Category 1B exicity (single exposure), Category 1 c), Category 1 gulation (EC) No 1272/2008 [CLP]: Danger Danger damage. y or the unborn child. organs. c life with long lasting effects. : uctions before use. all safety precautions have been read and understor t/fume/gas/mist/vapors/spray}. ughly after handling.	od.			
	Toxic To Reproduction, of Specific Target Organ To Aquatic Toxicity (Chronic Label Elements: Labeling according to Reg Office Content of the Content GHS Signal Word: GHS Hazard Phrases: H318: Causes serious eye H360: May damage fertility H370: Causes damage to H410: Very toxic to aquatic GHS Precaution Phrases P201: Obtain special instruc P202: Do not handle until a P260: Do not breathe {dus P264: Wash {hands} thoro P273: Avoid release to the	Category 1B exicity (single exposure), Category 1 c), Category 1 gulation (EC) No 1272/2008 [CLP]: Danger Danger damage. y or the unborn child. organs. c life with long lasting effects. c life with long lasting effec				
	Toxic To Reproduction, of Specific Target Organ To Aquatic Toxicity (Chronic Label Elements: Labeling according to Reg Office Content of the Content GHS Signal Word: GHS Hazard Phrases: H318: Causes serious eye H360: May damage fertility H370: Causes damage to H410: Very toxic to aquatic GHS Precaution Phrases P201: Obtain special instruc P202: Do not handle until a P260: Do not breathe {dus P264: Wash {hands} thoro P273: Avoid release to the	Category 1B exicity (single exposure), Category 1 c), Category 1 gulation (EC) No 1272/2008 [CLP]:				



aj	man		Lasoro	xilene (tartra	ile)	Revision: 05/11/2015	
	to do. Continue rinsing. P308+311: If exposed of concerned: Call a {POISON P313: Get medical advice/attention. P310: Immediately call a POISON CENTER or docto P321: Specific treatment {see on this label}. P391: Collect spillage. GHS Storage and Disposal Phrases:						
	GHS Storage and Disposal Phrases: Please refer to Section 7 for Storage and Section 13 for Disposal information.						
2.3	Adverse Human HealthCauses damage to organEffects and Symptoms:Causes serious eye damaMaterial may be irritatingMay be harmful by inhalaMay cause eye, skin, or re May damage fertility or th Very toxic to aquatic life w		Causes damage to organs. Causes serious eye damage Material may be irritating to the May be harmful by inhalation May cause eye, skin, or resp May damage fertility or the un Very toxic to aquatic life with	he mucous membra , ingestion, or skin a iratory system irritat nborn child. long lasting effects.	spiratory tract. t been thoroughly investigated.		
		Sect	tion 3. Composition	/Information	on Ingredie	nts	
CAS RTE		Hazardous Comp REACH Registra	oonents (Chemical Name)/ tion No.	Concentration	EC No./ EC Index No.	GHS Classification	
190791-29-8 Lasofoxifene (tartrat QK4252964		Lasofoxifene (tartrat	e)	100.0 %	NA NA	Eye Damage 1: H318 Toxic Repro. 1B: H360 STOT (SE) 1: H370 Aquatic (C) 1: H410	
.1			Remove to fresh air. If not bre		al respiration or giv	ve oxygen by trained personnel	
		of Skin Contact:	: Immediately wash skin with soap and plenty of water for at least 15 minutes. Remove contamin clothing. Get medical attention if symptoms occur. Wash clothing before reuse.				
		of Eye Contact:					
	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 Measures						
5.1	Suitable Extinguishing       Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray.         Media:       Use water spray to cool fire-exposed containers.         Unsuitable Extinguishing       A solid water stream may be inefficient.         Media:       Media:			spray.			
5.2		-	<b>d</b> No data available.				
	Flash P Explosi	t: ive Limits:	No data. LEL: No data.	UEL: No d	ata.		
Autoig							

Multi-region format



5.3	Fire Fig	hting Instructions		elf-contained breathing appara rotective gear to prevent conta		H approved or
			Section 6. Acc	cidental Release Me	easures	
6.1	<ul> <li>Protective Precautions, Avoid raising and breathing dust, and provide adequate ventilation.</li> <li>Protective Equipment and As conditions warrant, wear a NIOSH approved self-contained breathing apparatus, or respirator, and appropriate personal protection (rubber boots, safety goggles, and heavy rubber gloves).</li> </ul>					
6.2	Environ Precaut	ions:		elease into the environment, it	f safe to do so.	
6.3			Contain spill and colle gTransfer to a chemica	ect, as appropriate. al waste container for disposal	in accordance with local reg	julations.
			Section 7.	Handling and Stor	age	
7.1 7.2	in Hand	ling: ions To Be Taken	Avoid prolonged or re Keep container tightly		roduct insert.	
		Sect	tion 8. Exposu	re Controls/Persona	al Protection	
8.1	Exposur	e Parameters:				
CAS	#	Partial Chemical	Name	Britain EH40	France VL	Europe
1907	91-29-8	Lasofoxifene (tarti	rate)	No data.	No data.	No data.
CAS	#	Partial Chemical	Name	OSHA TWA	ACGIH TWA	Other Limits
1907	91-29-8	Lasofoxifene (tarti	rate)	No data.	No data.	No data.
8.2 8.2.1 8.2.2	2.1 Engineering Controls       Use process enclosures, local exhaust ventilation, or other engineering controls to control airborn         (Ventilation etc.):       levels below recommended exposure limits.				to control airborne	
	Protecti	ve Gloves:	Compatible chemical-	resistant gloves		
	Other P	rotective Clothing	:Lab coat			
	(Specify			pirator, as conditions warrant.		
	Work/H	-	Do not take internally. Facilities storing or ut Wash thoroughly afte No data available.	ilizing this material should be	equipped with an eyewash a	nd a safety shower.



	Se	ection 9. Physical and Chemical Properties	
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.	
	Flammability (solid, gas):	No data available.	
	Explosive Limits:	LEL: No data. UEL: No data.	
	Vapor Pressure (vs. Air or Hg):	mm No data.	
	Vapor Density (vs. Air = 1)	: No data.	
	Specific Gravity (Water = 1	I): No data.	
	Solubility in Water:	No data.	
	Solubility Notes:	~0.25 mg/ml in a 1:2 solution of DMSO:PBS (pH 7.2); ~1 mg/ml in DMSO & DMF;	
	Autoignition Pt:	No data.	
9.2	Other Information		
	Percent Volatile:	No data.	
	Molecular Formula & Weig	ht: C28H31NO2 • C4H6O6 563.6	
		Section 10. Stability and Reactivity	
0.1	Reactivity:	No data available.	
0.2	-	Unstable [ ] Stable [ X ]	
0.3	-	Stable if stored in accordance with information listed on the product insert.	
		Will occur [ ] Will not occur [ X ]	
0.4	-	No data available.	
0.5	Incompatibility - Materials		
	To Avoid:		
0.6		No data available.	
	Decomposition or		
	Byproducts:		
	<b>1</b> 1		
		Multi-region forma	



1.1	Information	tion on	The toxicological effects of this	product have not be	een thoroughly stu	udied.	
	Toxicolo	ogical Effects:	Lasofoxifene (tartrate) - Toxicit	ty Data: Oral TDLO (	(rat): 0.06 mg/kg/2	D (intermittent	);
	Chronic	Toxicological	Lasofoxifene (tartrate) - Invest	igated as a drug			
	Effects:		Only select Registry of Toxic E	ffects of Chemical S	Substances (RTEC	S) data is pres	ented here
		See actual entry in RTECS for complete information.					
			Lasofoxifene (tartrate) RTECS	Number: QK425296	64		
CAS	<b>#</b>	Hazardous Com	ponents (Chemical Name) NTP IARC ACGIH OSHA				
190791-29-8 Lasofoxifene (tart			rate)	n.a.	n.a.	n.a.	n.a.
		•	Section 12. Ecol	ogical Inform	ation	•	•
12.1	Toxicity	:	Avoid release into the environm	ment.			
			Runoff from fire control or dilut	ion water may cause	e pollution.		
12.2	Persiste	nce and	No data available.				
	Degrada	ıbility:					
12.3	Bioaccu	mulative	No data available.				
	Potentia	l:					
12.4	Mobility	in Soil:	No data available.				
12.5	Results	of PBT and vPvB	No data available.				
	assessn	nent:					
12.6	Other ac	verse effects:	No data available.				
			Section 13. Dispo	sal Consider	ations		
13.1	Waste D	isposal Method:	Dispose in accordance with lo	cal, state, and federa	al regulations.		
			Section 14. Trar	nsport Inform	ation		
14.1	LAND T	RANSPORT (US I	DOT):				
D	OT Prope	r Shipping Name:	Not dangerous goods.				
D	OT Hazar	d Class:					
U	N/NA Nur	nber:					
14.1	LAND T	RANSPORT (Euro	opean ADR/RID):				
Α	DR/RID S	hipping Name:	Not dangerous goods.				
U	N Numbe	r:					
Н	azard Cla	ss:					
14.3		ANSPORT (ICAO/I	ATA):				
IC	AO/IATA	Shipping Name:	Not dangerous goods.				
Addit	ional Trai	nsport	Transport in accordance with	ocal, state, and fede	eral regulations.		
Inforr	nation:						
			Section 15. Regu	latory Inform	ation		
EPA :	SARA (Su	perfund Amendm	ents and Reauthorization Act				
CAS	¥	Hazardous Com	ponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313	(TRI)
1907	91-29-8	Lasofoxifene (tart	rate)	No	No	No	
CAS #	<b>#</b>	Hazardous Com	ponents (Chemical Name)	Other US EPA or State Lists			
190791-29-8     Lasofoxifene (tartrate)     CAA HAP,ODC: No; CWA       PROP.65: No		No; CWA NPDE	S: No; TSCA:	No; CA			



Regulatory Information	This SDS was prepared in accordance with 29 CFR 1910.1200 and Regulation (EC)			
tatement: No.1272/2008.				
Section 16. Other Information				
Revision Date:	05/11/2015			
Additional Information About	No data available.			
This Product:				
	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.			