

Revision: 06/04/2019 Supersedes Revision: 02/08/2015

	CHEMICAL		Supersedes Revision: 02/08/2015						
		o Regulation (EC) No. 1907/2006 as amended by (EC) No. 2015/830							
	Section 1. Ide	entification of the Substance/Mixture and of th	e Company/Undertaking						
1.1	Product Code:	10011269							
	Product Name:	Fulvestrant							
	Synonyms:	7.alpha[9-[(4,4,5,5,5-pentafluoropentyl)sulfiny 182780;	l]nonyl]-estra-1,3,5(10)-triene-3,17.betadiol; ا						
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	nary 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: Information:	www.caymanchem.com	.1 (724)071 2225						
		Cayman Chemical Company	+1 (734)971-3335						
1.4	Emergency telephone numb		11 (800)424 0200						
	Emergency Contact:	CHEMTREC Within USA and Canada: CHEMTREC Outside USA and Canada:	+1 (800)424-9300 +1 (703)527-3887						
		Section 2. Hazards Identifica	ation						
2.1	Classification of the Substan	nce or Mixture:							
	Toxic To Reproduction, Ca	ategory 1B							
	Toxic To Reproduction, Effects on or via lactation								
	Aquatic Toxicity (Chronic), Category 4								
2.2	Label Elements:								
	GHS Signal Word:	Danger							
	GHS Hazard Phrases:	-							
	H360: May damage fertility or the unborn child.								
	H362: May cause harm to breast-fed children.								
	H413: May cause long lasting harmful effects to aquatic life.								
	GHS Precaution Phrases:								
	P201: Obtain special instructions before use.								
	P202: Do not handle until all safety precautions have been read and understood.								
	P260: Do not breathe {dust/fume/gas/mist/vapours/spray}.								
	P263: Avoid contact during pregnancy/while nursing.								
	P264: Wash {hands} thoroughly after handling.								
	P273: Avoid release to the environment.								
	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.								

5			SAFE	TY DATA SH	EET		Page: 2 of 5		
Car	man		F	ulvestrant			06/04/2019		
2.3	Advers	e Human Health	Material may be irritating to the	he mucous membran		Supersedes Revision:	02/08/2015		
2.5		and Symptoms:	Material may be irritating to the mucous membranes and upper respiratory tract. May be harmful by inhalation, ingestion, or skin absorption.						
			May cause eye, skin, or resp	-	-				
			May cause harm to breast-fe	d children.					
			May cause long lasting harm	-	life.				
			May damage fertility or the un						
		0	To the best of our knowledge				vestigated.		
		1	tion 3. Composition	1		1			
CAS RTEC	-	REACH Registra		Concentration	EC No./ EC Index No.	GHS Classification	אנ 		
-	53-61-8		tafluoropentyl)sulfinyl]nonyl]-estr	100.0 %	642-998-6	Toxic Repro. 1B: I			
NA		a-1,3,5(10)-triene-3,	1715-diol		NA	Aquatic (C) 4: H41 Toxic Lactate: H30			
							JZ		
	.		Section 4. Fi	rst Aid Measu	res				
4.1	Descrip Measur	otion of First Aid							
		of Inhalation:	Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel.						
			Get immediate medical attention.						
	In Case	of Skin Contact:	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						
	In Case	of Eye Contact:							
			and tested by medical person						
	In Case	of Ingestion:	-	Ith with water provided person is conscious. Never give anything by mouth to an person. Get medical attention. Do NOT induce vomiting unless directed to do so by					
			medical personnel.			ig unless unected to	J 00 30 Dy		
			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-exposed containers.						
		able Extinguishing	A solid water stream may be inefficient.						
	Media:		Ne dete evelleble						
5.2	Hazard	-	d No data available.						
	nazaru	5.	No data available.						
	Flash F	Yt:	No data.						
		ive Limits:	LEL: No data.	UEL: No dat	a.				
	-	nition Pt:	No data.						
5.3	-		: As in any fire, wear self-conta	ained breathing appa	ratus pressure-de	emand (NIOSH app	proved or		
	equivalent), and full protective gear to prevent contact with skin and eyes.								

Multi-region format



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		Section 6. Accidental Release Measures				
6.1	Protective Precautions,	Avoid raising and breathing dust, and provide adequate ventilation.				
	Protective Equipment and As conditions warrant, wear a NIOSH approved self-contained breathing apparatus, or respi					
	Emergency Procedures:	and appropriate personal protection (rubber boots, safety goggles, and heavy rubber gloves).				
6.2	Environmental	Take steps to avoid release into the environment, if safe to do so.				
	Precautions:					
6.3	Methods and Material For	Contain spill and collect, as appropriate.				
	Containment and Cleaning	Transfer to a chemical waste container for disposal in accordance with local regulations.				
	Up:					
		Section 7. Handling and Storage				
7.1	Precautions To Be Taken	Avoid breathing dust/fume/gas/mist/vapours/spray.				
	in Handling:	Avoid prolonged or repeated exposure.				
7.2	Precautions To Be Taken	Keep container tightly closed.				
	in Storing:	Store in accordance with information listed on the product insert.				
	Secti	on 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	ment:				
	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	Information on Basic Physi	cal 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.				



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	Specific	Gravity (Water =	1):	No data.					
	Solubility	y in Water:		No data.					
	Solubility	v Notes:		~20 mg/ml in EtOH, DMSO, & DMF	;				
	Octanol/	Water Partition		No data.					
	Coefficie	nt:							
	Autoigni	tion Pt:		No data.					
	-	osition Temperat	ure:	No data.					
	Viscosity	-		No data.					
9.2	Other Info								
0	Percent			No data.					
		r Formula & Wei	aht.	C32H47F5O3S 606.8					
	molooulu		-			<u>.</u>			
				ection 10. Stability and	Reacti	vity			
10.1	Reactivit	-		ta available.					
10.2	Stability:			ole [] Stable [X]					
10.3	Stability	Note(s):	Stable	if stored in accordance with informa	tion listed of	on the product	insert.		
	Polymeri	zation:	Will oc	cur [] Will not occur [X]					
10.4	Conditio	ns To Avoid:	No dat	a available.					
10.5	Incompa	tibility - Materials	strong	oxidizing agents					
	To Avoid	:							
10.6	Hazardo	us	carbor	n dioxide					
	Decompo	osition or	carbor	n monoxide					
	Byprodu	cts:	hydrog	gen fluoride					
			sulfur	oxides					
			Se	ection 11. Toxicological	Informa	ation			
11.1	Informati	ion on		xicological effects of this product have			udied.		
		gical Effects:		strant - Toxicity Data: Subcutaneous				I TDLO (rat): 4	
		9.000		/4D (intermittent);	, ,	, 10.0	Ĩ		
				strant - Investigated as a drug, hormone, reporductive effector, and tumorigen.					
	Effects: On			Dnly select Registry of Toxic Effects of Chemical Substances (RTECS) data is presented here.					
			-	See actual entry in RTECS for complete information.					
			Fulves	trant RTECS Number: KG7623000					
CAS	#	Hazardous Com	ponent	s (Chemical Name)	NTP	IARC	ACGIH	OSHA	
1294	53-61-8	7a-[9-[(4.4.5.5.5-r	pentaflu	oropentyl)sulfinyl]nonyl]-estra-1,3,5	n.a.	n.a.	n.a.	n.a.	
		(10)-triene-3,17ß-							
			, c	Section 12. Ecological Ir	format	ion	ł	ļ	
12.1	Toxicity:			release into the environment.	lionnat				
12.1	Toxicity.			f from fire control or dilution water ma	av cause p	ollution			
12.2	Persister	and and			ay cause p	onution.			
12.2			no da	a available.					
	Degrada	-							
12.3	Bioaccur		No dat	ta available.					
	Potential								
12.4	Mobility	in Soil:	No dat	a available.					
12.5	Results of	of PBT and vPvB	No da	ta available.					
	assessm	ent:							
12.6	Other ad	verse effects:	No da	ta available.					
							Ν	Iulti-region formation	
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		Section 13. Dispos	al Considera	itions			
3.1 Waste D	Disposal Method:	Dispose in accordance with loca	I, state, and federal	regulations.			
		Section 14. Trans	sport Informa	ation			
14.1 LAND 1	RANSPORT (US	DOT):					
DOT Prope	er Shipping Name	: Not dangerous goods.					
DOT Hazar	d Class:						
UN/NA Nui	nber:						
14.1 LAND 1	RANSPORT (Eur	opean ADR/RID):					
ADR/RID S	hipping Name:	Not dangerous goods.					
UN Numbe							
Hazard Cla							
	ANSPORT (ICAO/						
	Shipping Name:	Not dangerous goods.	and state and fader	al regulations			
Additional Tra	nsport	Transport in accordance with loo	cal, state, and leder	ai regulations.			
		Section 15 Decul	oton Inform	otion			
	un auf un al Ausan du	Section 15. Regul	•				
CAS #		nents and Reauthorization Act components (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)		
129453-61-8		pentafluoropentyl)sulfinyl]nonyl]-	No	No	No		
	estra-1,3,5(10)-tr						
CAS #	Hazardous Com	ponents (Chemical Name)	Other US EPA or State Lists				
129453-61-8 7a-[9-[(4,4,5,5,5-pentafluoropentyl)sulfinyl]nonyl] estra-1,3,5(10)-triene-3,17ß-diol			CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No				
Regulatory Info Statement:	ormation	This SDS was prepared in accor No.1272/2008.	rdance with 29 CFR	1910.1200 and Re	egulation (EC)		
		Section 16. Oth	er Informatio	n			
Revision Date:		06/04/2019					
Additional Info	rmation About	No data available.					
This Product:							
Company Polic	y or Disclaimer:	DISCLAIMER: This information i	s believed to be ac	curate and represe	nts the best information		
		currently available to us. Howeve		-			
		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.	wh investigations to	determine the suit	ability of the mormation it		