

	accordin	g to Regulation (EC) No. 1907/2006 as amended by (EC) No. 2015/83	0 and US OSHA HCS 2015					
	Section 1.	dentification of the Substance/Mixture and of the	ne Company/Undertaking					
.1	Product Code:	10006488						
	Product Name:	Gestrinone						
	Synonyms:	13-ethyl-17.alphahydroxy-18,19-dinorpregna	-4,9,11-trien-20-yn-3-one;					
1.2		f the substance or mixture and uses advised ag	-					
	Relevant identified uses: For research use only, not for human or veterinary 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 nun	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	ation					
2.1	Classification of the Subst	anco or Mixturo:						
2.2	Toxic To Reproduction, Toxic To Reproduction, Label Elements:	Category 1B Effects on or via lactation						
	Toxic To Reproduction,							
	Toxic To Reproduction,	Effects on or via lactation						
	Toxic To Reproduction, Label Elements:							
	Toxic To Reproduction, Label Elements: GHS Signal Word:	Effects on or via lactation Danger						
	Toxic To Reproduction, Label Elements: GHS Signal Word: GHS Hazard Phrases:	Effects on or via lactation Danger y or the unborn child.						
	Toxic To Reproduction, Label Elements: GHS Signal Word: GHS Hazard Phrases: H360: May damage fertilit	Effects on or via lactation Danger y or the unborn child. breast-fed children.						
	Toxic To Reproduction, Label Elements: GHS Signal Word: GHS Hazard Phrases: H360: May damage fertilit H362: May cause harm to	Effects on or via lactation Danger y or the unborn child. breast-fed children.						
	Toxic To Reproduction, Label Elements: GHS Signal Word: GHS Hazard Phrases: H360: May damage fertilit H362: May cause harm to GHS Precaution Phrases P201: Obtain special instr	Effects on or via lactation Danger y or the unborn child. breast-fed children.	ood.					
	Toxic To Reproduction, Label Elements: GHS Signal Word: GHS Hazard Phrases: H360: May damage fertilit H362: May cause harm to GHS Precaution Phrases P201: Obtain special instr P202: Do not handle until P281: Use personal protest	Effects on or via lactation Danger y or the unborn child. breast-fed children. s: uctions before use. all safety precautions have been read and understoctive equipment as required.	ood.					
	Toxic To Reproduction, Label Elements: GHS Signal Word: GHS Hazard Phrases: H360: May damage fertilit H362: May cause harm to GHS Precaution Phrases P201: Obtain special instr P202: Do not handle until P281: Use personal protect P263: Avoid contact during	Effects on or via lactation Danger y or the unborn child. breast-fed children. s: uctions before use. all safety precautions have been read and understo ctive equipment as required. g pregnancy/while nursing.	ood.					
	Toxic To Reproduction, Label Elements: GHS Signal Word: GHS Hazard Phrases: H360: May damage fertility H362: May cause harm to GHS Precaution Phrases P201: Obtain special instr P202: Do not handle until P281: Use personal protect P263: Avoid contact during P264: Wash {hands} thore	Effects on or via lactation Danger y or the unborn child. breast-fed children. s: uctions before use. all safety precautions have been read and understo ctive equipment as required. g pregnancy/while nursing. bughly after handling.	ood.					
	Toxic To Reproduction, Label Elements: GHS Signal Word: GHS Hazard Phrases: H360: May damage fertilit H362: May cause harm to GHS Precaution Phrases P201: Obtain special instr P202: Do not handle until P281: Use personal protect P263: Avoid contact during P264: Wash {hands} thoro P260: Do not breathe {dust	Effects on or via lactation Danger y or the unborn child. breast-fed children. s: uctions before use. all safety precautions have been read and understo ctive equipment as required. g pregnancy/while nursing. bughly after handling. st/fume/gas/mist/vapours/spray}.	ood.					
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	Toxic To Reproduction, Label Elements: GHS Signal Word: GHS Hazard Phrases: H360: May damage fertility H362: May cause harm to GHS Precaution Phrases P201: Obtain special instr P202: Do not handle until P281: Use personal protect P263: Avoid contact during P264: Wash {hands} thoro P260: Do not breathe {dus GHS Response Phrases P308+313: IF exposed or GHS Storage and Dispose	Effects on or via lactation Danger y or the unborn child. breast-fed children. : uctions before use. all safety precautions have been read and understo ctive equipment as required. g pregnancy/while nursing. bughly after handling. st/fume/gas/mist/vapours/spray}. : concerned: Get medical attention/advice. sal Phrases:						
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	-		SAFE	TY DATA SH	IEET	Page: 2 of 5				
-				Gestrinone		Revision: 10/17/2018				
cay	11:11					Supersedes Revision: 02/12/2015				
2.3	Adverse	Human Health	Material may be irritating to t			spiratory tract.				
	Effects a	nd Symptoms:	May be harmful by inhalation, ingestion, or skin absorption.							
			May cause eye, skin, or resp		tion.					
			May cause harm to breast-fe							
			May damage fertility or the unborn child. To the best of our knowledge, the toxicological properties have not been thoroughly investigated.							
<u> </u>		Sect	tion 3. Composition							
CAS	#/		ponents (Chemical Name)/	Concentration	EC No./	GHS Classification				
RTEC		REACH Registra		Concentration	EC Index No.	GHS Classification				
1632	20-04-0	Gestrinone		100.0 %	685-143-2	Toxic Repro. 1B: H360				
JF796	64000				NA	Toxic Lactate: H362				
			Section 4. Fi	rst Aid Meas	ures					
4.1	Descripti	ion of First Aid								
	Measure	s:								
	In Case o	of Inhalation:	Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Get immediate medical attention.							
	In Case o	of Skin Contact:	Immediately wash skin with soap and plenty of water for at least 15 minutes. Remove contaminated							
	In Case o	of Eye Contact:	clothing. Get medical attention if symptoms occur. Wash clothing before reuse.							
	in case c	D Lye Contact.	Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Have eyes examined and tested by medical personnel.Wash out mouth with water provided person is conscious. Never give anything by mouth to an							
	In Case o	of Ingestion:								
			-	dical attention. Do N	IOT induce vomiti	ng unless directed to do so by				
_			medical personnel.							
			Section 5. Fire	Fighting Me	asures					
5.1	Suitable Media:	Extinguishing	Use alcohol-resistant foam, o Use water spray to cool fire-o		-	spray.				
		le Extinguishing								
	Media:									
5.2	Flammab	le Properties an	dNo data available.							
	Hazards:									
			No data available.							
	Flash Pt:		No data.							
	Explosiv	e Limits:	LEL: No data.	UEL: No d	ata.					
	Autoigni	tion Pt:	No data.							
5.3	Fire Figh	ting Instructions	s: As in any fire, wear self-cont equivalent), and full protectiv		-					
						BALLAS you where for the				
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	C	Section 6. Accidental Release Measures					
6.1		Avoid raising and breathing dust, and provide adequate ventilation.					
		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).					
6.2	Environmental	Take steps to avoid release into the environment, if safe to do so.					
	Precautions:						
6.3		Contain spill and collect, as appropriate.					
	•	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 A	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.					
	Section	on 8. Exposure Controls/Personal Protection					
8.1	Exposure Parameters:						
8.2	Exposure Controls:						
8.2.1	Engineering Controls	Jse process enclosures, local exhaust ventilation, or other engineering controls to control airborne					
	(Ventilation etc.):	evels below recommended exposure limits.					
8.2.2	Personal protection equipm	nent:					
	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.					
	V	Nash thoroughly after handling.					
	١	No data available.					
	Se	ction 9. Physical and Chemical Properties					
9.1	Information on Basic Physic	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 r	mm No data.					
	Hg):						
	Vapor Density (vs. Air = 1):	No data.					
		Multi-region format					

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	Specific Gra	vity (Water =	1): No da	ata.						
	Solubility in Water:		No data.							
	Solubility No	~0.25	~0.25 mg/ml in a 1:5 solution of EtOH:PBS (pH 7.2); ~20 mg/ml in EtOH, DMSO, & DMF;							
	Octanol/Wat	er Partition	No da	ata.						
	Coefficient:									
	Autoignition	Pt:	No da	ata.						
	Decomposit	on Temperat	ure: No da	ata.						
	Viscosity:		No da	ata.						
9.2	Other Inform	ation								
	Percent Vola	tile:	No da	ata.						
		ormula & Wei		12402	308.4					
			-					:4		
					Stability	y and	Reacti	vity		
10.1	Reactivity:		No data avai	lable.						
10.2	Stability:		Unstable [-	le [X]					
10.3	Stability Not	e(s):	Stable if stor	ed in acco	ordance with	n informa	tion listed	on the product	insert.	
	Polymerizati	on:	Will occur [] Will	not occur [X]				
10.4	Conditions 1	o Avoid:	No data avai	lable.						
10.5	Incompatibil	ity - Materials	strong oxidiz	ing agents	6					
	To Avoid:									
10.6	Hazardous		carbon dioxid	de						
	Decomposit	on or	carbon mono	oxide						
	Byproducts:									
			Sectio	n 11 T	oxicolo	nical	Inform	ation		
11.1	Information	<u></u>				<u> </u>			udied	
				The toxicological effects of this product have not been thoroughly studied. Gestrinone - Toxicity Data: Oral LDLO (rat): 1 gm/kg; Intraperitoneal LDLO (rat): 1 gm/kg;						
	TOXICOlOgica	I LIICUS.	Gestrinone - Toxicity Data. Oral LDLO (rat). T gn/kg, Intrapentoneal LDLO (rat). T gn/kg, Intraperitoneal LDLO (mouse): 1 gm/kg; Gestrinone - Investigated as a hormone and reproductive effector. Only select Registry of Toxic Effects of Chemical Substances (RTECS) data is presented here. See actual entry in RTECS for complete information.							
	Chronic Tox	icological								
	Effects:	loological								
	Lifeoto.									
			Gestrinone F	•		•				
CAS	# Ha	zardous Com	nonents (Ch	mical Na	me)		NTP	IARC	ACGIH	OSHA
		strinone								
103/	20-04-0 Ge	sunnone					n.a.	n.a.	n.a.	n.a.
			Secti	on 12.	Ecolog	jical In	format	ion		
12.1	Toxicity:		Avoid releas	e into the e	environmen	nt.				
Runoff from fire control or dilution water n				water ma	ay cause p	ollution.				
12.2	Persistence	and	No data avai	lable.						
	Degradabilit	v:								
12.3	Bioaccumula		No data avai	ilable						
12.0	Potential:									
12.4		ail	No data avai	ilable						
	12.4 Mobility in Soil:		No data available.							
12.5			3 No data available.							
	assessment									
12.6	Other advers	se effects:	No data avai	lable.						
									N	Aulti-region formation



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CHIMICAL				Supersec	les Revision: 02/12/2018			
		Section 13. Dispos	al Considerat	ions				
3.1 Waste Dispos	te Disposal Method: Dispose in accordance with local, state, and federal regulations.							
		Section 14. Trans	sport Informat	ion				
4.1 LAND TRANS	PORT (US	DOT):						
DOT Proper Ship	ping Name	Not dangerous goods.						
DOT Hazard Clas	s:							
UN/NA Number:								
4.1 LAND TRANS	PORT (Eur	opean ADR/RID):						
ADR/RID Shippin	g Name:	Not dangerous goods.						
UN Number:								
Hazard Class:								
I4.3 AIR TRANSPO ICAO/IATA Shipp	-	Not dangerous goods.						
Additional Transport	-	Transport in accordance with lo	cal state and federal	regulations				
nformation:			cal, state, and leveral	regulations.				
		Section 15 Degul	aton / Informat	tion				
		Section 15. Regul	•					
		nents and Reauthorization Act o	-	0.004.50				
		ponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)			
	rinone		No	No	No			
		ponents (Chemical Name)	State Lists					
16320-04-0 Gest	rinone		CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No					
Regulatory Information	on	This SDS was prepared in acco	rdance with 29 CFR 1	1910.1200 and Regul	ation (EC)			
Statement:		No.1272/2008.						
		Section 16. Oth	ner Information	า				
evision Date:		10/17/2018						
dditional Informatio	n About	No data available.						
his Product:								
Company Policy or D	isclaimer:	DISCLAIMER: This information i	is believed to be accu	irate 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.						