

Revision: 05/20/2019

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	according to Regulation (EC) No. 1907/2006 as amended by (EC) No. 2015/830 and US OSHA HCS 2015						
	Section 1. I	Identification of the Substance/Mixture and of the	e Company/Undertaking				
1.1	Product Code:	27854	27854				
	Product Name:	5a-dihydro Levonorgestrel					
	Synonyms:	(5.alpha.,17.alpha.)-13-ethyl-17-hydroxy-18,19-	dinorpregn-20-yn-3-one; 5.alphaDHLNG;				
.2	Relevant identified uses of	f the substance or mixture and uses advised aga	inst:				
	Relevant identified uses:	: For research use only, not for human or veterin	ary 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 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 Identifica	ation				
	Acute Toxicity: Inhalatio Acute Toxicity: Skin, Car Toxic To Reproduction, Label Elements:	tegory 4					
	Acute Toxicity: Inhalation Acute Toxicity: Skin, Car Toxic To Reproduction, Label Elements: GHS Signal Word: GHS Hazard Phrases:	on, Category 4 tegory 4 Category 1A Danger					
	Acute Toxicity: Inhalation Acute Toxicity: Skin, Car Toxic To Reproduction, Label Elements: GHS Signal Word:	on, Category 4 tegory 4 Category 1A Danger					
	Acute Toxicity: Inhalation Acute Toxicity: Skin, Car Toxic To Reproduction, Label Elements: GHS Signal Word: GHS Hazard Phrases: H312: Harmful in contact of	on, Category 4 tegory 4 Category 1A Danger with skin.					
	Acute Toxicity: Inhalation Acute Toxicity: Skin, Car Toxic To Reproduction, Label Elements: GHS Signal Word: GHS Hazard Phrases: H312: Harmful in contact of H332: Harmful if inhaled.	on, Category 4 tegory 4 Category 1A Danger with skin. y or the unborn child .					
	Acute Toxicity: Inhalation Acute Toxicity: Skin, Car Toxic To Reproduction, Label Elements: GHS Signal Word: GHS Hazard Phrases: H312: Harmful in contact of H332: Harmful if inhaled. H360: May damage fertility	on, Category 4 tegory 4 Category 1A Danger with skin. y or the unborn child . s:					
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	Acute Toxicity: Inhalation Acute Toxicity: Skin, Car Toxic To Reproduction, Label Elements: GHS Signal Word: GHS Hazard Phrases: H312: Harmful in contact of H332: Harmful if inhaled. H360: May damage fertility GHS Precaution Phrases P201: Obtain special instru- P202: Do not handle until P261: Avoid breathing {du	on, Category 4 tegory 4 Category 1A Danger with skin. y or the unborn child . s: uctions before use. all safety precautions have been read and understoo					
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	Acute Toxicity: Inhalation Acute Toxicity: Skin, Car Toxic To Reproduction, Label Elements: GHS Signal Word: GHS Hazard Phrases: H312: Harmful in contact of H332: Harmful in contact of H332: Harmful if inhaled. H360: May damage fertility GHS Precaution Phrases P201: Obtain special instru- P202: Do not handle untill P261: Avoid breathing {du P280: Wear {protective glo GHS Response Phrases P302+352: IF ON SKIN: V P304+340: IF INHALED: F P308+313: IF exposed or P312: Call a POISON CER	on, Category 4 tegory 4 Category 1A Danger with skin. y or the unborn child . s: uctions before use. all safety precautions have been read and understoo ust/fume/gas/mist/vapors/spray}. oves/protective clothing/eye protection/face protection ist/fume/gas/mist/vapors/spray}. oves/protective clothing/eye protection/face protection : Vash with plenty of soap and water. Remove victim to fresh air and keep at rest in a posit concerned: Get medical attention/advice. NTER or doctor/physician if you feel unwell. (see on this label}.	n}.				
	Acute Toxicity: Inhalation Acute Toxicity: Skin, Car Toxic To Reproduction, Label Elements: GHS Signal Word: GHS Hazard Phrases: H312: Harmful in contact of H332: Harmful in contact of H332: Harmful if inhaled. H360: May damage fertility GHS Precaution Phrases P201: Obtain special instru- P202: Do not handle untill P261: Avoid breathing {du P280: Wear {protective glo GHS Response Phrases P302+352: IF ON SKIN: V P304+340: IF INHALED: F P308+313: IF exposed or P312: Call a POISON CER	on, Category 4 tegory 4 Category 1A Danger with skin. y or the unborn child . s: uctions before use. all safety precautions have been read and understoo ust/fume/gas/mist/vapors/spray}. oves/protective clothing/eye protection/face protection : Vash with plenty of soap and water. Remove victim to fresh air and keep at rest in a posit concerned: Get medical attention/advice. NTER or doctor/physician if you feel unwell.	n}.				
2.1	Acute Toxicity: Inhalation Acute Toxicity: Skin, Car Toxic To Reproduction, Label Elements: GHS Signal Word: GHS Hazard Phrases: H312: Harmful in contact of H332: Harmful in contact of H332: Harmful if inhaled. H360: May damage fertility GHS Precaution Phrases P201: Obtain special instru- P202: Do not handle untill P261: Avoid breathing {du P280: Wear {protective glo GHS Response Phrases P302+352: IF ON SKIN: V P304+340: IF INHALED: F P308+313: IF exposed or P312: Call a POISON CER	on, Category 4 tegory 4 Category 1A Danger with skin. y or the unborn child . s: uctions before use. all safety precautions have been read and understoo ist/fume/gas/mist/vapors/spray}. oves/protective clothing/eye protection/face protection : Vash with plenty of soap and water. Remove victim to fresh air and keep at rest in a posit concerned: Get medical attention/advice. NTER or doctor/physician if you feel unwell. (see on this label). iminated clothing and wash it before reuse.	n}.				

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2.3		e Human Health and Symptoms:	Harmful if inhaled or in contact with skin. Material may be irritating to the mucous membranes and upper respiratory tract. May be harmful by ingestion. May cause eye, skin, or respiratory system irritation. May damage fertility or the unborn child . To the best of our knowledge, the toxicological properties have not been thoroughly investigated.						
		Sect	ion 3. Composition	/Information	on Ingredie	nts			
	CAS # / Hazardous Comp RTECS # REACH Registra		oonents (Chemical Name)/ tion No.	Concentration	EC No./ EC Index No.	GHS Classification			
7808 NA	38-19-4	5.alphadihydro Lev	ronorgestrel	100.0 %	NA NA	Acute Tox.(I) 4: H332 Acute Tox.(D) 4: H312 Toxic Repro. 1A: H360			
		•	Section 4. Fi	rst Aid Meas	ures				
4.1	Measu	otion of First Aid res: e of Inhalation:	Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Get immediate medical attention.						
		e of Skin Contact:	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	e of Ingestion:	and tested by medical personnel. 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 Me	asures				
5.1	Suitabl	e Extinguishing		alcohol-resistant foam, carbon dioxide, water, or dry chemical spray.					
	Media:		Use water spray to cool fire-	-					
	Media:	able Extinguishing	A solid water stream may be	inefficient.					
5.2	Flammable Properties andNo data available. Hazards:								
			No data available.						
	Flash Pt:		No data.						
	-	ive Limits:	LEL: No data.	UEL: No da	ata.				
5.3	Autoignition Pt: No data. Fire Fighting Instructions: As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or pressure).								
		,g	equivalent), and full protectiv		-				



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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 respirator,
	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 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.
		Multi-region format



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	Specific 0	Gravity (Water =)	1):	No data.							
	Solubility	in Water:		No data.							
	Solubility	Notes:		Soluble (slightly) in: chloroform; MeOH;							
	Octanol/V	Vater Partition		No data.							
	Coefficie	nt:									
	Autoignit	ion Pt:		No data.							
	-	sition Temperate	ure:	No data.							
	Viscosity	-		No data.							
9.2	Other Info										
	Percent Volatile:			No data.							
	Molecular Formula & Weight:			C21H30O2	314.5						
			S	ection 10.	Stability and	React	ivity				
10.1	Reactivity	/:		a available.							
10.2	Stability:		Unstab	le [] Stabl	le [X]						
10.3	Stability I	Note(s):	Stable	if stored in acco	ordance with informa	tion listed	on the product	insert.			
			Will occ	cur[] Will	not occur [X]						
10.4	Conditior	ns To Avoid:	No data	a available.							
10.5	Incompat	ibility - Materials	strong	oxidizing agents	5						
	To Avoid	:									
10.6	Hazardou	IS	carbon	dioxide							
	Decompo	sition or	carbon	arbon monoxide							
	Byproduc	sts:									
			Se	ction 11. T	oxicological	Inform	ation				
11.1	Information	on on	The tox	cicological effect	ts of this product ha	ve not bee	n thoroughly st	udied.			
	Toxicolog	gical Effects:									
CAS	¥	Hazardous Com	ponents	s (Chemical Na	ime)	NTP	IARC	ACGIH	OSHA		
7808	38-19-4	5.alphadihydro L	_evonor	gestrel		n.a.	n.a.	n.a.	n.a.		
	·		S	ection 12.	Ecological Ir	formation	tion				
12.1	12.1 Toxicity:		Avoid release into the environment.								
	•		Runoff	Runoff from fire control or dilution water may cause pollution.							
12.2	Persistence and No c		No data	lo data available.							
	Degradab	oility:									
12.3	Bioaccumulative No		No data available.								
	Potential:										
12.4	Mobility i	n Soil:	No data	No data available.							
12.5	Results o	f PBT and vPvB	No data	Vo data available.							
	assessme	ent:									
12.6	Other adv	verse effects:	No data	a available.							



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		Section 13. Dispos						
13.1 Waste Disposal Method: Dispose in accordance with local, state, and federal regulations.								
		Section 14. Tran	sport Informat	tion				
14.1 LAND T	RANSPORT (US I	DOT):						
DOT Prope	er Shipping Name:	Not dangerous goods.						
DOT Hazar								
UN/NA Nur								
	RANSPORT (Euro							
UN Numbe	hipping Name:	Not dangerous goods.						
Hazard Cla								
14.3 AIR TR/	ANSPORT (ICAO/I	IATA):						
ICAO/IATA	Shipping Name:	Not dangerous goods.						
Additional Trai	nsport	Transport in accordance with lo	ocal, state, and federa	l regulations.				
Information:								
		Section 15. Regu	latory Informa	tion				
EPA SARA (Su	perfund Amendr	nents and Reauthorization Act	of 1986) Lists					
CAS #	Hazardous Com	ponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)			
78088-19-4	5.alphadihydro I	Levonorgestrel	No	No	No			
CAS #	Hazardous Com	ponents (Chemical Name)	Other US EPA or State Lists					
78088-19-4	5.alphadihydro I	Levonorgestrel	CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No					
Regulatory Info	ormation	This SDS was prepared in accordance with 29 CFR 1910.1200 and Regulation (EC)						
Statement:		No.1272/2008.						
		Section 16. Otl	her Information	n				
Revision Date:		05/20/2019						
Additional Info	rmation About	No data available.						
This Product:								
Company Polic	y or Disclaimer:	DISCLAIMER: This 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.	-		-			