

Revision: 04/17/2018 Supersedes Revision: 03/06/2018

	acc	ording to Regulation (EC) No. 1907/2006 as amended by	EC) No. 1272/2008					
	Section 1.	Identification of the Substance/Mixture and of the	e Company/Undertaking					
.1	Product Code: 24071							
	Product Name:	Goserelin (acetate)						
	Synonyms:	2-(aminocarbonyl)hydrazide-6-[O-(1,1-dimethy	lethyl)-D-serine]-1-9-luteinizing					
		hormone-releasing factor (swine), monoacetat	e; ICI 118630;					
.2	Relevant identified uses o	of the substance or mixture and uses advised ag	ainst:					
	Relevant identified uses	: For research use only, not for human or vetering	hary use.					
.3	Details of the Supplier of	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	4 (70)) 77 4 0007					
	Information:	Cayman Chemical Company	+1 (734)971-3335					
.4	Emergency telephone nur							
	Emergency Contact:	CHEMTREC Within USA and Canada:	+1 (800)424-9300					
		CHEMTREC Outside USA and Canada:	+1 (703)527-3887					
		Section 2. Hazards Identification	ation					
	Skin Corrosion/Irritatior Serious Eye Damage/Ey Respiratory Sensitizatio	ve Irritation, Category 1 on, Category 1						
	Skin Corrosion/Irritation Serious Eye Damage/Ey Respiratory Sensitization Skin Sensitization, Cate Germ Cell Mutagenicity Toxic To Reproduction, Specific Target Organ T Aquatic Toxicity (Chron	n, Category 2 re Irritation, Category 1 on, Category 1 gory 1 , Category 2 Category 2 roxicity (single exposure), Category 1						
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снем					Supersedes Revision: 0	13/00/2018
	GHS Precaution Phrase	s:				
	201: Obtain special instr					
		all safety precautions have be		ood.		
F	260: Do not breathe {du	st/fume/gas/mist/vapors/spray	}.			
F	264: Wash {hands} thore	oughly after handling.				
F	270: Do not eat, drink or	smoke when using this produ	ct.			
F	271: Use only outdoors	or in a well-ventilated area.				
F	272: Contaminated work	clothing should not be allowe	d out of the workplac	æ.		
F	273: Avoid release to the	e environment.				
F	280: Wear {protective gl	oves/protective clothing/eye pr	rotection/face protect	ion}.		
F	285: In case of inadequa	ate ventilation wear respiratory	protection.			
c	GHS Response Phrases	:				
F	9301+312: IF SWALLOW	ED: Call a POISON CENTER	or doctor/physician if	f you feel unwell.		
F	2302+352: IF ON SKIN: \	Wash with plenty of soap and w	vater.			
F	2304+340: IF INHALED:	Remove victim to fresh air and	keep at rest in a pos	sition comfortable	e for breathing.	
F	2305+351+338: IF IN EY	ES: Rinse cautiously with wate	er for several minutes	. Remove contac	ct lenses, if present ar	nd easy
t	o do. Continue rinsing.					
F	308+311: If exposed of	concerned: Call a {POISON C	ENTER/Doctor/}.			
F	P313: Get medical advice	/attention.				
F	P310: Immediately call a	POISON CENTER or doctor/pl	hysician.			
F	P321: Specific treatment	(see on this label).				
F	2330: Rinse mouth.					
F	P332+313: If skin irritatior	n occurs, get medical advice/at	tention.			
F	P333+313: If skin irritatior	n or rash occurs, seek medical	advice/attention.			
F	P342+311: If experiencing	g respiratory symptoms call a I	POISON CENTER or	doctor/physician	1.	
F	P362+364: Take off conta	minated clothing and wash it b	pefore reuse.			
c	GHS Storage and Dispo	sal Phrases:				
F	Please refer to Section 7	for Storage and Section 13 for	Disposal information	I.		
2.3 Ac	verse Human Health	Causes damage to organs.				
Ef	fects and Symptoms:	Causes serious eye damage				
		Causes skin irritation.				
		Harmful if swallowed.				
		Material may be irritating to the	ne mucous membran	es and upper res	spiratory tract.	
		May be harmful by inhalation	or skin absorption.			
		May cause allergy or asthma	symptoms or breath	ing difficulties if in	nhaled.	
		May cause an allergic skin re	action.			
		May cause eye or respiratory	system irritation.			
		May cause long lasting harm	ful effects to aquatic	life.		
		Suspected of causing genetic	c defects.			
		Suspected of damaging fertil	ty or the unborn child	d.		
		To the best of our knowledge	, the toxicological pro	operties have not	t been thoroughly inve	estigated.
	Sect	ion 3. Composition	/Information c	on Ingredie	nts	
CAS#/	Hazardous Comp	onents (Chemical Name)/	Concentration	EC No./	GHS Classification	<u></u>

CAS # / RTECS #	Hazardous Components (Chemical Name)/ REACH Registration No.	Concentration	EC No./ EC Index No.	GHS Classification
145781-92-6	Goserelin (acetate)	100.0 %	652-995-1	Acute Tox.(O) 4: H302
NA			NA	Toxic Repro. 2: H361
				Skin Corr. 2: H315
				Eye Damage 1: H318
				Resp. Sens. 1: H334
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Multi-region format

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1	SAFE	TY DATA SH	EET	Page: 3 of 6
2	Gose	relin (acetate)		Revision: 04/17/2018
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				Skin Sens. 1: H317
				STOT (SE) 1: H370
				Aquatic (C) 4: H413
				Mutagen 2: H341
	Section 4. Fir	rst Aid Measu	res	
Description of First Aid Measures:				
In Case of Inhalation:	Remove to fresh air. If not bre Get immediate medical attent		respiration or give	e oxygen by trained personnel.
In Case of Skin Contact:	Immediately wash skin with se clothing. Get medical attention			minutes. Remove contaminated fore reuse.
In Case of Eye Contact:	Hold eyelids apart and flush e	eves with plenty of wa	ter for at least 15	minutes. Have eyes examined
	and tested by medical person			
In Case of Ingestion:	Wash out mouth with water pl	rovided person is cor	scious. Never giv	e anything by mouth to an
	unconscious person. Get med	dical attention. Do NO	T induce vomiting	g unless directed to do so by
	medical personnel.			
	Section 5. Fire	Fighting Mea	sures	
Suitable Extinguishing	Use alcohol-resistant foam, c	arbon dioxide, water	or dry chemical s	spray.
Media:	Use water spray to cool fire-e	exposed containers.		
Unsuitable Extinguishing	A solid water stream may be	inefficient.		
Media:				
Flammable Properties an	d No data available.			
Hazards:				
	No data available.			
Flash Pt:	No data.			
Explosive Limits:	LEL: No data.	UEL: No dat	a.	
Autoignition Pt:	No data.			
-	: As in any fire, wear self-conta	ained breathing appa	ratus pressure-de	mand (NIOSH approved or
	equivalent), and full protective		-	
	Section 6. Acciden	tal Release M	leasures	
Protective Precautions,	Avoid raising and breathing	dust, and provide ade	equate ventilation.	
Protective Equipment and	d As conditions warrant, wear	a NIOSH approved s	elf-contained brea	athing apparatus, or respirator,
Emergency Procedures:	and appropriate personal pro	otection (rubber boots	s, safety goggles,	and heavy rubber gloves).
Environmental	Take steps to avoid release	into the environment,	if safe to do so.	
Precautions:				
Methods and Material For	Contain spill and collect, as a	appropriate.		
Containment and Cleanin	gTransfer to a chemical waste	container for dispos	al in accordance v	with local regulations.

		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.	

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	HEMICAL	Supersedes Revision: 03/06/2018					
	Sectio	on 8. Exposure Controls/Personal Protection					
8.1	Exposure Parameters:						
8.2	Exposure Controls:						
8.2.1		se process enclosures, local exhaust ventilation, or other engineering controls to control airborn evels below recommended exposure limits.					
8.2.2	Personal protection equipment:						
	Eye Protection: S	afety glasses					
	Protective Gloves: Compatible chemical-resistant gloves						
	Other Protective Clothing:Lab coat						
	Respiratory Equipment N (Specify Type):	IIOSH approved respirator, as conditions warrant.					
	Work/Hygienic/Maintenan D	o not take internally.					
		acilities storing or utilizing this material should be equipped with an eyewash and a safety showe /ash thoroughly after handling.					
	Ν	lo data available.					
	Sec	ction 9. Physical and Chemical Properties					
9.1	Information on Basic Physic	al 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 n Hg):	nm No data.					
	Vapor Density (vs. Air = 1):	No data.					
	Specific Gravity (Water = 1)	No data.					
	Solubility in Water:	No data.					
	Solubility Notes:	~10 mg/ml in PBS (pH 7.2); ~0.25 mg/ml in EtOH; ~30 mg/ml in DMSO & DMF;					
	Octanol/Water Partition Coefficient:	No data.					
	Autoignition Pt:	No data.					
	Decomposition Temperature	e: No data.					
	Viscosity:	No data.					
9.2	Other Information						
	Percent Volatile:	No data.					
	Molecular Formula & Weigh	t: C59H84N18O14 • C2H4O2 1329.5					

Multi-region format



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0.2 Stability: Unstable [] Stable [X] 0.3 Stability Note(s): Stable if stored in accordance with information listed on the product insert. Polymerization: Will occur [] Will not occur [X] 0.4 Conditions To Avoid: No data available. 0.5 Incompatibility - Materials strong bases strong reducing agents strong reducing agents 0.6 Hazardous carbon dioxide Decomposition or carbon monoxide Byproducts: nitrogen oxides Section 11. Toxicological Information 11 Information on Toxicological Effects: Section 11. Toxicological Information 14 Hazardous Components (Chemical Name) NTP IARC ACGIH OSHA 14 Hazardous Components (Chemical Name) NTP IARC ACGIH OSHA 14 Hazardous Components (Chemical Name) NTP IARC ACGIH OSHA 14 Hazardous Components (Chemical Name) NTP IARC ACGIH OSHA 14 Hazardous Components (Chemical Name) NTP IARC ACGIH OSHA 14 Hazardous Components	ay	H .S.A.				S	upersedes Revis	ion: 03/06/20	
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Polymerization: Will occur [] Will not occur [X] 0.4 Conditions To Avoid: No data available. 0.5 Incompatibility - Materials strong acids strong oxidizing agents strong reducing agents Image: Strong oxidizing agents 0.6 Hazardous carbon dixide Image: Strong oxidizing agents 0.6 Hazardous Section 11. Toxicological Information Toxicological Effects CAS # Hazardous Components (Chemical Name) NTP IARC ACGIH OSHA 145781-92-6 Goserelin (acetate) n.a. n.a. n.a. n.a. n.a. 2.1 Toxicity: Avoid release into the environment. Rundit from fire control or dilution water may cause pollution. Exertion 13. Disposal Considerations. Exertion 14. Canot release release release release release re	10.2	Stability	:	Unstable [] Stable [X]					
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ICAO/IATA Shipping Name: Not dangerous goods.

Transport in accordance with local, state, and federal regulations.

Information:

Additional Transport

Section 15. Regulatory Information

CAS #	Hazardous Com	ponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)	
145781-92-6 Goserelin (acetate)			No	No	No	
CAS #	Hazardous Com	ponents (Chemical Name)) Other US EPA or State Lists			
145781-92-6	Goserelin (acetat	e)	CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No			
Regulatory Info Statement:	ormation	This SDS was prepared in accordance with 29 CFR 1910.1200 and Regulation (EC) No.1272/2008.				
		Section 16. Ot	her Informatio	on		
Revision Date:		04/17/2018				
	rmation About	No data available.				
This Product: Company Policy or Disclaimer:		DISCLAIMER: This information currently available to us. Howe express or implied, with respec- use. Users should make their their particular purposes.	ver, we make no wa t to such informatior	rranty of merchanta n, and we assume r	bility or any other warranty to liability resulting from its	