

Ganirelix Formulation

Version 5.8	Revision Date: 16.10.2020	-	S Number: 223-00016	Date of last issue: 13.09.2019 Date of first issue: 15.10.2014
1. PRODU	CT AND COMPANY ID	ENT	IFICATION	
Produ	ct name	:	Ganirelix Form	nulation
Manu Comp	facturer or supplier's o any	deta :	ils Organon & Co).
	Address :			reet, 33nd floor ew Jersey, U.S.A 07302
Telep	hone	:	551-430-6000	
Emerg	gency telephone numbe	r:	215-631-6999	
E-mai	l address	:	EHSSTEWAR	D@organon.com
	mmended use of the c nmended use		ical and restric Pharmaceutic	
2. HAZAR	DS IDENTIFICATION			
	Classification	:	Category 1B	
•	fic target organ toxicity - ted exposure	:	Category 1 (B	one marrow, Liver, Adrenal gland, spleen, Ova
GHS	abel elements			
Hazar	d pictograms	:		
Signa	l word	:	Danger	
Hazar	d statements	:	born child. H372 Causes	damage fertility. Suspected of damaging the ur damage to organs (Bone marrow, Liver, Adren Ovary) through prolonged or repeated exposu
Preca	utionary statements	:	P202 Do not h and understoc P260 Do not b P264 Wash sh P270 Do not e	preathe mist or vapours. kin thoroughly after handling. eat, drink or smoke when using this product. otective gloves/ protective clothing/ eye protec



Ganirelix Formulation

Version 5.8	Revision Date: 16.10.2020	-	S Number: 223-00016		sue: 13.09.2019 sue: 15.10.2014			
			P308 + P313 IF exposed or concerned: Get medical advice/ attention.					
			Storage: P405 Store locked up.					
			Disposal: P501 Dispose of contents/ container to an approved waste disposal plant.					
Othe	r hazards which do ı	not res	ult in classif	ication				
None	known.							
. COMPC	SITION/INFORMATI			ITS				
Subst	tance / Mixture	:	Mixture					
	ponents							
	nical name			CAS-No.	Concentration (% w/w)			
Ganir	elix			124904-93-4	>= 0.01 -< 0.1			
FIRST A	AID MEASURES							
_								
Gene	ral advice	:	 In the case of accident or if you feel unwell, seek medical advice immediately. When symptoms persist or in all cases of doubt seek medical advice. 					
lf inha	aled	:	If inhaled, remove to fresh air. Get medical attention.					
In cas	se of skin contact	:	 In case of contact, immediately flush skin with soap and plenty of water. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse. 					
In cas	se of eye contact	:	Flush eyes w	Flush eyes with water as a precaution. Get medical attention if irritation develops and persists.				
lf swa	allowed	:		, DO NOT induce vor				

Rinse mouth thoroughly with water.
Most important symptoms and effects, both acute and delayed
May damage fertility. Suspected of damaging the unborn child.
Causes damage to organs through prolonged or repeated exposure.
First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment when the potential for exposure exists (see section 8).

Notes to physician

5. FIREFIGHTING MEASURES

Suitable extinguishing media :

Water spray Alcohol-resistant foam

:

Treat symptomatically and supportively.



Ganirelix Formulation

	Revision Date: 16.10.2020		S Number: 223-00016	Date of last issue: 13.09.2019 Date of first issue: 15.10.2014
Unsuitab media	le extinguishing	:	Carbon dioxide (C Dry chemical None known.	202)
	nazards during fire-	:	Exposure to comb	oustion products may be a hazard to health.
	us combustion prod-	:	No hazardous cor	nbustion products are known
Specific e ods	extinguishing meth-	:	cumstances and t Use water spray t Remove undamag so.	measures that are appropriate to local cir- he surrounding environment. o cool unopened containers. ged containers from fire area if it is safe to do
Special p for firefig	rotective equipment hters	:	Evacuate area. In the event of fire Use personal prot	e, wear self-contained breathing apparatus. ective equipment.
6. ACCIDENT	AL RELEASE MEAS	SUF	RES	
	precautions, protec- oment and emer- ocedures	:		ective equipment. ing advice (see section 7) and personal pro- recommendations (see section 8).
Environm	nental precautions	:	Prevent spreading barriers). Retain and dispos	akage or spillage if safe to do so. g over a wide area (e.g. by containment or oil se of contaminated wash water. should be advised if significant spillages
	and materials for ent and cleaning up	:	For large spills, pr ment to keep mate be pumped, store Clean up remainin bent. Local or national r posal of this mate employed in the c mine which regula Sections 13 and 1	a absorbent material. Tovide dyking or other appropriate contain- erial from spreading. If dyked material can recovered material in appropriate container. In materials from spill with suitable absor- regulations may apply to releases and dis- rial, as well as those materials and items leanup of releases. You will need to deter- ations are applicable. 5 of this SDS provide information regarding tional requirements.

7. HANDLING AND STORAGE

Technical measures	:	See Engineering measures under EXPOSURE
		CONTROLS/PERSONAL PROTECTION section.
Local/Total ventilation	:	If sufficient ventilation is unavailable, use with local exhaust
		ventilation.
Advice on safe handling	:	Do not get on skin or clothing.
		Do not breathe mist or vapours.
		Do not swallow.



Ganirelix Formulation

Version 5.8	Revision Date: 16.10.2020	SDS Number: 22223-00016	Date of last issue: 13.09.2019 Date of first issue: 15.10.2014			
		Handle in acc practice, bas sessment Keep contain Do not eat, d	oroughly after handling. cordance with good industrial hygiene and safety ed on the results of the workplace exposure as- er tightly closed. rink or smoke when using this product. prevent spills, waste and minimize release to the			
Cond	itions for safe storage	: Keep in properly labelled containers. Store locked up. Keep tightly closed.				
Mater	rdance with the particular national regulations. with the following product types: ing agents					

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Ganirelix	124904-93-4	TWA	0.2 μg/m3 (OEB 5)	Internal
		Wipe limit	2 µg/100 cm ²	Internal

Engineering measures :	Use closed processing systems or containment technologies to control at source (e.g., glove boxes/isolators) and to pre- vent leakage of compounds into the workplace. All engineering controls should be implemented by facility design and operated in accordance with GMP principles to protect products, workers, and the environment. No open handling permitted. Totally enclosed processes and materials transport systems are required. Operations require the use of appropriate containment tech- nology designed to prevent leakage of compounds into the workplace.
Personal protective equipmen	t
Respiratory protection : Hand protection	No personal respiratory protective equipment normally re- quired.
Material :	Chemical-resistant gloves
Remarks : Eye protection :	Consider double gloving. Wear safety glasses with side shields or goggles. If the work environment or activity involves dusty conditions, mists or aerosols, wear the appropriate goggles. Wear a faceshield or other full face protection if there is a potential for direct contact to the face with dusts, mists, or aerosols.



Ganirelix Formulation

Version 5.8	Revision Date: 16.10.2020	SDS Number: 22223-00016	Date of last issue: 13.09.2019 Date of first issue: 15.10.2014		
Skin and body protection		 Work uniform or laboratory coat. Additional body garments should be used based upon the task being performed (e.g., sleevelets, apron, gauntlets, di posable suits) to avoid exposed skin surfaces. Use appropriate degowning techniques to remove potentia contaminated clothing. 			
Hygie	ne measures	eye flushing sy ing place. When using do Wash contami The effective o engineering co appropriate de industrial hygie	chemical is likely during typical use, provide estems and safety showers close to the work- o not eat, drink or smoke. nated clothing before re-use. operation of a facility should include review of ontrols, proper personal protective equipment, gowning and decontamination procedures, ene monitoring, medical surveillance and the trative controls.		

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	Aqueous solution
Colour	:	No data available
Odour	:	No data available
Odour Threshold	:	No data available
рН	:	5
Melting point/freezing point	:	No data available
Initial boiling point and boiling range	:	100 °C
Flash point	:	No data available
Evaporation rate	:	No data available
Flammability (solid, gas)	:	Not applicable
Flammability (liquids)	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapour pressure	:	23 hPa (20 °C)
Relative vapour density	:	No data available
Relative density	:	1
Solubility(ies)		



Ganirelix Formulation

Version 5.8	Revision Date: 16.10.2020		S Number: 223-00016	Date of last issue: 13.09.2019 Date of first issue: 15.10.2014			
W	Water solubility		completely misci	ble			
	Partition coefficient: n- octanol/water		: No data available				
	ignition temperature	:	No data available	9			
Deco	Decomposition temperature		No data available	9			
	osity scosity, kinematic osive properties	:	No data available Not explosive	9			
Oxidi	zing properties	:	The substance o	r mixture is not classified as oxidizing.			
Mole	cular weight	:	No data available	9			
Partie	cle size	:	No data available	9			

10. STABILITY AND REACTIVITY

Reactivity Chemical stability Possibility of hazardous reac- tions	:	Not classified as a reactivity hazard. Stable under normal conditions. Can react with strong oxidizing agents.
Conditions to avoid Incompatible materials Hazardous decomposition products	:	None known. Oxidizing agents No hazardous decomposition products are known.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of	:	Inhalation
exposure		Skin contact
		Ingestion
		Eye contact

Acute toxicity

Not classified based on available information.

Components:

Ganirelix:

Acute toxicity (other routes of : LD50 (Rat): 40 mg/kg administration)

Skin corrosion/irritation

Not classified based on available information.

Serious eye damage/eye irritation

Not classified based on available information.





Version 5.8	Revision Date: 16.10.2020		0S Number: 223-00016	Date of last issue: 13.09.2019 Date of first issue: 15.10.2014
Com	ponents:			
Gani Spec Resu	ies	:	Rabbit Mild eye irritation	
Meth		:	Draize Test	
Resp	iratory or skin sens	itisatio	'n	
-	sensitisation lassified based on ava	ailable	information.	
-	iratory sensitisation lassified based on ava		information.	
Com	ponents:			
Gani	relix:			
Test Spec Resu	ies	:	Maximisation Tes Guinea pig negative	st
	n cell mutagenicity lassified based on ava	ailable	information.	
Com	ponents:			
Gani	relix:			
Geno	otoxicity in vitro	:	Test Type: revers Test system: Salr Result: negative	se mutation assay monella typhimurium
			Test Type: revers Test system: Esc Result: negative	e mutation assay herichia coli
			Test Type: in vitro Test system: Chin Result: negative	o assay nese hamster ovary cells
Geno	otoxicity in vivo	:	Test Type: In vivo Species: Mouse Application Route Result: negative	o micronucleus test e: Intravenous
	n cell mutagenicity - ssment	:	Weight of evidend cell mutagen.	ce does not support classification as a germ

Carcinogenicity

Not classified based on available information.

Reproductive toxicity

May damage fertility. Suspected of damaging the unborn child.

Ganirelix Formulation



Versio 5.8	n Revision Date: 16.10.2020		DS Number: 223-00016	Date of last issue: 13.09.2019 Date of first issue: 15.10.2014
<u>C</u>	omponents:			
G	anirelix:			
Ef	ffects on fertility	:	Species: Rat Application Route	Treatment: 13 Weeks).1 μg/kg
			Species: Rat, fem Application Route Duration of Single Fertility: LOAEL: 1	: Subcutaneous Treatment: 8 Weeks
			Test Type: Fertility Species: Monkey Application Route Fertility: NOAEL: 0 Result: Effects on	: Subcutaneous 0.02 mg/kg body weight
	ffects on foetal develop- ent	:	Species: Rat, fem Application Route	: Subcutaneous icity: LOAEL: 10 μg/kg
			Species: Rabbit, f Application Route	: Subcutaneous icity: LOAEL: 30 μg/kg
	eproductive toxicity - As- essment	:	ity, based on anim	adverse effects on sexual function and fertil- nal experiments., Some evidence of adverse oment, based on animal experiments.

STOT - single exposure

Not classified based on available information.

STOT - repeated exposure

Causes damage to organs (Bone marrow, Liver, Adrenal gland, spleen, Ovary) through prolonged or repeated exposure.

Components:

Ganirelix:

Exposure routes Target Organs	Ingestion Bone marrow, Liver, Adrenal gland, spleen, Ovary
Assessment	Causes damage to organs through prolonged or repeated
	exposure.





Version 5.8	Revision Date: 16.10.2020	SDS Number: 22223-00016	Date of last issue: 13.09.2019 Date of first issue: 15.10.2014
Repe	ated dose toxicity		
Com	ponents:		
Gani	relix:		
Expo	EL	: Rat : 0.02 mg/kg : 2 mg/kg : Subcutaneous : 6 Months : Bone marrow	
Expo		: Mouse, female : 0.3 mg/kg : Subcutaneous : 3 Months : Liver, Adrenal g	land, spleen, Ovary
Expo		: Mouse, male : 3 mg/kg : Subcutaneous : 3 Months : Liver, Adrenal g	land, spleen
	EL cation Route sure time	: Monkey : 2.5 mg/kg : Subcutaneous : 6 Months : No significant ad	dverse effects were reported
Not c	ration toxicity lassified based on ava		
-	rience with human e	xposure	
	ponents:		

Ganirelix:

Inhalation

Symptoms: The most common side effects are:, vaginal bleeding, Headache, Abdominal pain, Nausea, ectopic pregnancy, miscarriage

12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

Ganirelix:

Acute aquatic toxicity :		No data available
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Chronic aquatic toxicity	: No data available
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Ganirelix Formulation



Version 5.8	Revision Date: 16.10.2020	SDS Number: 22223-00016	Date of last issue: 13.09.2019 Date of first issue: 15.10.2014
	stence and degradal ata available	bility	
Bioad	ccumulative potentia	ıl	
No da	ata available		
Mobi	lity in soil		
No da	ata available		
Othe	r adverse effects		
No da	ata available		
13. DISPC	SAL CONSIDERATI	ONS	
Dispo	osal methods		
	e from residues		accordance with local regulations.
Conta	aminated packaging		ners should be taken to an approved waste han- recycling or disposal.
			se specified: Dispose of as unused product.
14 TRAN	SPORT INFORMATIC		
14. TRAN	SPORT INFORMATIC		

UNRTDG

Not regulated as a dangerous good

IATA-DGR Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

Workplace Safety and Health Act and Workplace Safety and Health (General Provisions) Regulations: This product is subjected to the SDS, labelling, PEL and other requirements in the Act/Regulations.

Environmental Protection and Management Act and Environmental Protection and Management (Hazard- ous Substances) Regulations	:	Not applicable
Fire Safety (Petroleum and Flammable Materials) Regulations	:	Not applicable

The components of this product are reported in the following inventories:

AICS : not determined



Ganirelix Formulation

Version 5.8	Revision Date: 16.10.2020	SDS Number: 22223-00016	Date of last issue: 13.09.2019 Date of first issue: 15.10.2014
DSL		: not determined	
IECSC	;	: not determined	

16. OTHER INFORMATION

Further information

Sources of key data used to compile the Safety Data Sheet	:	Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agen- cy, http://echa.europa.eu/
Date format	:	dd.mm.yyyy

Full text of other abbreviations

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR -Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text.



Ganirelix Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 13.09.2019
5.8	16.10.2020	22223-00016	Date of first issue: 15.10.2014

Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

SG / EN