

Date of last issue: 03/23/2020

# **Ganirelix Formulation**

Revision Date:

SDS Number:

Version

/ersion 7.4	Revision Date: 10/16/2020		OS Number: 224-00017	Date of last issue: 03/23/2020 Date of first issue: 10/15/2014					
SECTION	1. IDENTIFICATION								
Produ	Product name :		Ganirelix Formulation						
Manu	facturer or supplier's o	deta	ails						
Comp	Company name of supplier :		Organon & Co.						
Addre	Address :			30 Hudson Street, 33nd floor					
<b>T</b> .1	<b>T</b> - 1 1		Jersey City, New Jersey, U.S.A 07302						
	Telephone : Emergency telephone :		551-430-6000 215-631-6999						
	il address	:	EHSSTEWARD	@organon.com					
Reco	mmended use of the c	hen	nical and restric	tions on use					
Recor	mmended use	:	Pharmaceutical						
ECTION	2. HAZARDS IDENTIFI	CA	ΓΙΟΝ						
GHS 1910.		dan	ce with the OSH	A Hazard Communication Standard (29 CF					
Repro	oductive toxicity	:	Category 1B						
	fic target organ toxicity ated exposure	:	Category 1 (Bor	ne marrow, Liver, Adrenal gland, spleen, Ovai					
GHS	label elements								
Hazaı	rd pictograms	:							
Signa	l Word	:	Danger						
Hazaı	rd Statements	:	H360Fd May da unborn child.	mage fertility. Suspected of damaging the					
				amage to organs (Bone marrow, Liver, Adrena Ovary) through prolonged or repeated exposur					
Preca	utionary Statements	:	Prevention:						
			P201 Obtain sp P202 Do not ha and understood P260 Do not bre P264 Wash skir P270 Do not ea	eathe mist or vapors. ) thoroughly after handling. t, drink or smoke when using this product. ective gloves, protective clothing, eye protecti					
			<b>Response:</b> P308 + P313 IF	exposed or concerned: Get medical attention					
			<b>Storage:</b> P405 Store lock	ed up.					



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		<b>Disposal:</b> P501 Disp disposal pl	ose of contents and container to an approved was
Other	haranda		
	<b>hazards</b> known.		
CTION 3	3. COMPOSITION/INF	FORMATION ON	I INGREDIENTS
Substa	ance / Mixture	: Mixture	
Comp	onents		
	ical name	CAS-N	
Ganire	elix concentration is with		4-93-4 >= 0.01 - < 0.1
Gener	al advice		
		advice imn	e of accident or if you feel unwell, seek medical nediately.
		advice imn	
lf inha		advice imn When sym advice. : If inhaled,	nediately. optoms persist or in all cases of doubt seek medica remove to fresh air.
lf inha		advice imn When sym advice. : If inhaled, Get medica : In case of of water. Remove ca Get medica Wash cloth	nediately. ptoms persist or in all cases of doubt seek medica remove to fresh air. al attention. contact, immediately flush skin with soap and pler ontaminated clothing and shoes. al attention. hing before reuse.
lf inhai In case	led	advice imm When sym advice. If inhaled, Get medica in case of of water. Remove ca Get medica Wash cloth Thoroughly Flush eyes	nediately. ptoms persist or in all cases of doubt seek medica remove to fresh air. al attention. contact, immediately flush skin with soap and pler ontaminated clothing and shoes. al attention. hing before reuse. y clean shoes before reuse. s with water as a precaution.
lf inhai In case	led e of skin contact e of eye contact	advice imm When sym advice. If inhaled, Get medic: In case of of water. Remove ca Get medic: Wash cloth Thoroughly Flush eyes Get medic: If swallowe Get medic:	nediately. ptoms persist or in all cases of doubt seek medica remove to fresh air. al attention. contact, immediately flush skin with soap and pler ontaminated clothing and shoes. al attention. hing before reuse. y clean shoes before reuse.
If inhai In case In case If swal Most in	led e of skin contact e of eye contact lowed mportant symptoms fects, both acute and	advice imm When sym advice. If inhaled, Get medica In case of of water. Remove ca Get medica Wash cloth Thoroughly Flush eyes Get medica Rinse mou May dama child. Causes da	nediately. nptoms persist or in all cases of doubt seek medica remove to fresh air. al attention. contact, immediately flush skin with soap and pler ontaminated clothing and shoes. al attention. hing before reuse. y clean shoes before reuse. s with water as a precaution. al attention if irritation develops and persists. ed, DO NOT induce vomiting. al attention.
If inhal In case In case If swal Most in and ef delaye	led e of skin contact e of eye contact lowed mportant symptoms fects, both acute and	<ul> <li>advice imm When sym advice.</li> <li>If inhaled, Get medica</li> <li>In case of of water. Remove ca Get medica</li> <li>Wash cloth Thoroughly</li> <li>Flush eyes Get medica</li> <li>If swallowe Get medica</li> <li>First Aid re and use th</li> </ul>	nediately. nptoms persist or in all cases of doubt seek medica remove to fresh air. al attention. contact, immediately flush skin with soap and pler ontaminated clothing and shoes. al attention. hing before reuse. y clean shoes before reuse. s with water as a precaution. al attention if irritation develops and persists. ed, DO NOT induce vomiting. al attention. uth thoroughly with water. age fertility. Suspected of damaging the unborn

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### **SECTION 5. FIRE-FIGHTING MEASURES**

Suitable extinguishing media	:	Water spray Alcohol-resistant foam
		Carbon dioxide (CO2) Dry chemical
Unsuitable extinguishing media	:	None known.



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	Specific hazards during fire fighting Hazardous combustion prod- ucts		Exposure to comb	pustion products may be a hazard to health.			
			No hazardous cor	nbustion products are known			
	Specific extinguishing meth- ods		Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Use water spray to cool unopened containers. Remove undamaged containers from fire area if it is safe to so. Evacuate area.				
	Special protective equipment for fire-fighters		In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.				
SEC	TION 6. ACCIDENTAL RELE	AS	E MEASURES				
	Personal precautions, protec- tive equipment and emer- gency procedures		Follow safe handl	ective equipment. ing advice (see section 7) and personal ent recommendations (see section 8).			
	Environmental precautions		Prevent spreading oil barriers). Retain and dispos	he environment. akage or spillage if safe to do so. g over a wide area (e.g., by containment or se of contaminated wash water.			

Personal precautions, protec-	Use personal protective equipment. Follow safe handling advice (see section 7) and personal protective equipment recommendations (see section 8).
Environmental precautions :	<ul> <li>Avoid release to the environment.</li> <li>Prevent further leakage or spillage if safe to do so.</li> <li>Prevent spreading over a wide area (e.g., by containment or oil barriers).</li> <li>Retain and dispose of contaminated wash water.</li> <li>Local authorities should be advised if significant spillages cannot be contained.</li> </ul>
Methods and materials for containment and cleaning up	<ul> <li>Soak up with inert absorbent material.</li> <li>For large spills, provide diking or other appropriate containment to keep material from spreading. If diked material can be pumped, store recovered material in appropriate container.</li> <li>Clean up remaining materials from spill with suitable absorbent.</li> <li>Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable.</li> <li>Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.</li> </ul>

## SECTION 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 vapors. Do not swallow. Avoid contact with eyes. Wash skin thoroughly after handling. Handle in accordance with good industrial hygiene and safety



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		assessment Keep containe Do not eat, drin Take care to p environment.	d on the results of the workplace exposure r tightly closed. nk or smoke when using this product. revent spills, waste and minimize release to the			
Cond	itions for safe storage	<ul> <li>Keep in properly labeled containers.</li> <li>Store locked up.</li> <li>Keep tightly closed.</li> <li>Store in accordance with the particular national regulations.</li> </ul>				
Materials to avoid		<ul> <li>Do not store with the following product types: Strong oxidizing agents Organic peroxides Explosives Gases</li> </ul>				

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Ingredients 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 <sup>2</sup>	Internal

Engineering measures :	Use closed processing systems or containment technologies to control at source (e.g., glove boxes/isolators) and to prevent 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 technology designed to prevent leakage of compounds into the workplace.
Personal protective equipmen	t
Respiratory protection :	No personal respiratory protective equipment normally required.
Hand protection	
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.



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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, disposable suits) to avoid exposed skin surfaces. Use appropriate degowning techniques to remove potentia contaminated clothing.		
Hygie	ne measures	eye flushing sy working place. When using do Wash contamir The effective o engineering co appropriate de	chemical is likely during typical use, provide stems and safety showers close to the not eat, drink or smoke. hated clothing before re-use. peration of a facility should include review of ntrols, proper personal protective equipment, gowning and decontamination procedures, ne monitoring, medical surveillance and the trative controls.	

#### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	Aqueous solution
Color	:	No data available
Odor	:	No data available
Odor Threshold	:	No data available
рН	:	5
Melting point/freezing point	:	No data available
Initial boiling point and boiling range	:	212 °F / 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
Vapor pressure	:	23 hPa (68 °F / 20 °C)
Relative vapor density	:	No data available
Relative density	:	1
Solubility(ies)		



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Water solubility		:	completely misci	ble
	rtition coefficient: n- tanol/water	:	No data available	9
	toignition temperature	:	No data available	9
De	composition temperature	:	No data available	9
Vis	Viscosity Viscosity, kinematic		No data available	9
Ex	plosive properties	:	Not explosive	
0>	Oxidizing properties		The substance or mixture is not classified as oxidizing	
Мо	blecular weight	:	No data available	9
Pa	Particle size		No data available	9

### SECTION 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.

## SECTION 11. TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure

Inhalation 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.





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<u>Comp</u>	oonents:		
Ganir	elix:		
Speci	es	: Rabbit	
Resul		: Mild eye irritation	า
Metho	bd	: Draize Test	
Resp	iratory or skin sensi	ization	
-	sensitization assified based on ava	ilable information.	
Resp	iratory sensitization		
	assified based on ava	ilable information.	
<u>Comp</u>	<u>oonents:</u>		
Ganir			
Test ]		: Maximization Te	st
Speci Resul		: Guinea pig : negative	
Not cl	cell mutagenicity assified based on avain conents:	ilable information.	
Ganir			
	toxicity in vitro		se mutation assay Imonella typhimurium
		Test Type <sup>,</sup> rever	se mutation assay
		Test system: Es	
		Result: negative	
		-	
		Test Type: in viti Test system: Ch	ro test inese hamster ovary cells
		Test Type: in viti	ro test inese hamster ovary cells
Geno	toxicity in vivo	Test Type: in viti Test system: Ch Result: negative : Test Type: In viv	ro test inese hamster ovary cells
Geno	toxicity in vivo	Test Type: in vitu Test system: Ch Result: negative : Test Type: In viv Species: Mouse	ro test inese hamster ovary cells ro micronucleus test
Geno	toxicity in vivo	Test Type: in vitu Test system: Ch Result: negative : Test Type: In viv Species: Mouse Application Rout	ro test inese hamster ovary cells ro micronucleus test re: Intravenous
Geno	toxicity in vivo	Test Type: in vitu Test system: Ch Result: negative : Test Type: In viv Species: Mouse	ro test inese hamster ovary cells ro micronucleus test re: Intravenous
	toxicity in vivo cell mutagenicity -	Test Type: in vite Test system: Ch Result: negative : Test Type: In viv Species: Mouse Application Rout Result: negative	ro test inese hamster ovary cells ro micronucleus test re: Intravenous
Germ		Test Type: in vite Test system: Ch Result: negative : Test Type: In viv Species: Mouse Application Rout Result: negative	ro test inese hamster ovary cells ro micronucleus test re: Intravenous

Not classified based on available information.

- **IARC** No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
- **OSHA** No component of this product present at levels greater than or equal to 0.1% is



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	on OSHA's lis	st of regulated card	sinogens.
NTP			esent at levels greater than or equal to 0.1% is ated carcinogen by NTP.
-	oductive toxicity damage fertility. Suspect	ed of damaging th	e unborn child.
Com	oonents:		
Ganir	relix:		
Effect	ts on fertility	Species: Rat Application R Duration of S	oute: Subcutaneous ingle Treatment: 13 Weeks EL: 0.1 μg/kg
		Species: Rat Application R Duration of S Fertility: LOA	oute: Subcutaneous ingle Treatment: 8 Weeks
			nkey oute: Subcutaneous .EL: 0.02 mg/kg body weight
Effect	ts on fetal development	Species: Rat Application R Embryo-fetal	mbryo-fetal development , female oute: Subcutaneous toxicity.: LOAEL: 10 μg/kg yo-fetal toxicity.
		Species: Rat Application R Embryo-fetal	mbryo-fetal development obit, female oute: Subcutaneous toxicity.: LOAEL: 30 µg/kg yo-fetal toxicity.
Repro sessn	oductive toxicity - As- nent	fertility, base	ce of adverse effects on sexual function and d on animal experiments., Some evidence of cts on development, based on animal

### 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.

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<u>Comp</u>	oonents:		
Ganir	elix:		
Targe	s of exposure t Organs ssment		Liver, Adrenal gland, spleen, Ovary ge to organs through prolonged or repeated
Repea	ated dose toxicity		
<u>Comp</u>	oonents:		
Ganir	elix:		
Expos	EL	: Rat : 0.02 mg/kg : 2 mg/kg : Subcutaneous : 6 Months : Bone marrow	
Expos		: Mouse, female : 0.3 mg/kg : Subcutaneous : 3 Months : Liver, Adrenal	
Expos		: Mouse, male : 3 mg/kg : Subcutaneous : 3 Months : Liver, Adrenal	
	EL cation Route sure time	: Monkey : 2.5 mg/kg : Subcutaneous : 6 Months : No significant	adverse effects were reported

Not classified based on available information.

## Experience with human exposure

### **Components:**

### Ganirelix:

Inhalation

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





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ECTION	12. ECOLOGICAL IN	FORMATION	
Ecote	oxicity		
Com	ponents:		
Gani	relix:		
	oxicology Assessme	ent : No data availa	ble
Chror	nic aquatic toxicity	: No data availa	ble
	<b>stence and degrada</b> ata available	bility	
	ccumulative potentia	al	
	<b>lity in soil</b> ata available		
	r adverse effects ata available		

#### **Disposal methods**

Waste from residues	:	Dispose of in accordance with local regulations.
Contaminated packaging	:	Empty containers should be taken to an approved waste
		handling site for recycling or disposal.
		If not otherwise specified: Dispose of as unused product.

## SECTION 14. TRANSPORT INFORMATION

#### International Regulations

**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.

#### **Domestic regulation**

### 49 CFR

Not regulated as a dangerous good



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## SECTION 15. REGULATORY INFORMATION

### **CERCLA Reportable Quantity**

This material does not contain any components with a CERCLA RQ.

### SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

### SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

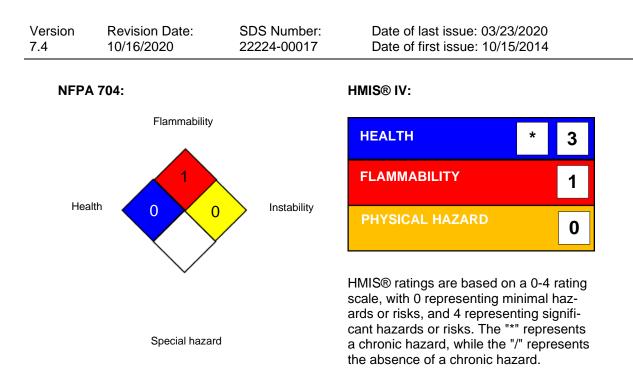
SARA 311/312 Hazards	Reproductive toxicity Specific target organ toxicity (single or repeated exposure)
SARA 313	This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.
US State Regulations	
Pennsylvania Right To Know	
Water	7732-18-5
The ingredients of this produ-	et are reported in the following inventories:
AICS	not determined
DSL	not determined
IECSC	

### **SECTION 16. OTHER INFORMATION**

**Further information** 

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### Full text of other abbreviations

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; 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; HMIS - Hazardous Materials Identification System; 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; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; 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; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; 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



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	es of key data used to e the Material Safety		cal data, data from raw material SDSs, OECD search results and European Chemicals Agen-

eChem Portal search results and European Chemicals Agency, http://echa.europa.eu/

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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. 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.

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Data Sheet