

Version	Revision Date:	SDS Number:	Date of last issue: 04.04.2023
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SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name	:	Recombinant Follicle Stimulating Hormone Formulation				
Manufacturer or supplier's details						
Company name of supplier	:	Organon & Co.				
Address	:	Avenida 16 de Septiembre No. 301				
		Xaltocan - Xochimilco Mexico 16090				
Telephone	:	+52 55 57284444				
Emergency telephone	:	1-215-631-6999				
E-mail address	:	EHSSTEWARD@organon.com				
Recommended use of the chemical and restrictions on use						
Recommended use	:	Pharmaceutical				
Restrictions on use	:	Not applicable				

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification Reproductive toxicity	:	Category 1B
Specific target organ toxicity - repeated exposure	:	Category 1 (male reproductive organs, female reproductive or- gans)
GHS label elements Hazard pictograms	:	
Signal Word	:	Danger
Hazard Statements	:	H360FD May damage fertility. May damage the unborn child. H372 Causes damage to organs (male reproductive organs, female reproductive organs) through prolonged or repeated exposure.
Precautionary Statements	:	 Prevention: P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P260 Do not breathe mist or vapors. P264 Wash skin thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. Response:
		P308 + P313 IF exposed or concerned: Get medical advice/ attention.



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Storage:

P405 Store locked up.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
Sucrose	57-50-1	>= 5 -< 10
Benzyl alcohol	100-51-6	>= 1 -< 5
Recombinant Follicle Stimulating Hormone	146479-72-3	>= 0.1 -< 1

SECTION 4. FIRST AID MEASURES

General 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.
If inhaled	:	If inhaled, remove to fresh air. Get medical attention.
In case 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 case of eye contact	:	Flush eyes with water as a precaution. Get medical attention if irritation develops and persists.
If swallowed	:	If swallowed, DO NOT induce vomiting. Get medical attention. Rinse mouth thoroughly with water.
Most important symptoms and effects, both acute and delayed	:	May damage fertility. May damage the unborn child. Causes damage to organs through prolonged or repeated exposure.
Protection of first-aiders	:	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	:	Treat symptomatically and supportively.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media :

Water spray Alcohol-resistant foam



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medi Spec fighti Haza ucts Spec ods	Specific extinguishing meth-		Carbon dioxide (CO2) Dry chemical None known. Exposure to combustion products may be a hazard to health Carbon oxides Metal oxides Use extinguishing measures that are appropriate to local cir cumstances 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. In the event of fire, wear self-contained breathing apparatus		
	e-fighters	40	· ·	ective equipment.	
		-			
tive e	onal precautions, protec- equipment and emer- y procedures	:	Follow safe handl	ective equipment. ing advice (see section 7) and personal ent recommendations (see section 8).	
Envir	Environmental precautions		Prevent spreading oil barriers). Retain and dispos	akage or spillage if safe to do so. g over a wide area (e.g., by containment or se of contaminated wash water. should be advised if significant spillages	
	Methods and materials for containment and cleaning up		For large spills, procontainment to kee can be pumped, so container. Clean up remaining absorbent. Local or national of disposal of this m employed in the co determine which of Sections 13 and 1	a absorbent material. rovide diking or other appropriate eep material from spreading. If diked material store recovered material in appropriate ing materials from spill with suitable regulations may apply to releases and aterial, as well as those materials and items leanup of releases. You will need to regulations are applicable. 5 of this SDS provide information regarding tional requirements.	

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.



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		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 practice, based on the results of the workplace exposure assessment Keep container tightly closed. Do not eat, drink or smoke when using this product. Take care to prevent spills, waste and minimize release to the environment.			
Hygiene measures		flushing system place. When using do	When using do not eat, drink or smoke.		
Conditions for safe storage		: Keep in proper Store locked up Keep tightly clo	 Wash contaminated clothing before re-use. Keep in properly labeled containers. Store locked up. Keep tightly closed. Store in accordance with the particular national regulations. 		
Materials to avoid		: Do not store wi Strong oxidizin	th the following product types: g agents ubstances and mixtures		

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Sucrose	57-50-1	VLE-PPT	10 mg/m ³	NOM-010- STPS-2014
		TWA	10 mg/m ³	ACGIH
Recombinant Follicle Stimulat- ing Hormone	146479-72-3	TWA	5 µg/m3 (OEB 4)	Internal
		Wipe limit	50 µg/100 cm²	Internal

: Minimize workplace exposure concentrations.

Ingredients with workplace control parameters

Engineering measures

	If sufficient ventilation is unavailable, use with local exhaust ventilation.	
Personal protective equip	ent	
Respiratory protection	: If adequate local exhaust ventilation is not available or exposure assessment demonstrates exposures outside the recommended guidelines, use respiratory protection.	
Filter type Hand protection	: Combined particulates and organic vapor type	



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Material		: Chemical-re	esistant gloves		
Remarks		on the cond time is not For special resistance gloves with	 Choose gloves to protect hands against chemicals depending on the concentration specific to place of work. Breakthrough time is not determined for the product. Change gloves often! For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer. Wash hands before breaks and at the end of workday. 		
Eye protection		: Wear the fo	Wear the following personal protective equipment: Safety glasses		
Skin and body protection		: Select appr resistance potential. Skin contac	Select appropriate protective clothing based on chemical resistance data and an assessment of the local exposure		

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	liquid
Color	:	No data available
Odor	:	No data available
Odor Threshold	:	No data available
рН	:	No data available
Melting point/freezing point	:	No data available
Initial boiling point and boiling range	:	No data available
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	:	No data available
Relative vapor density	:	No data available
Density	:	No data available



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S	olubility(ies) Water solubility	: No data availat	ble
•	artition coefficient: n-	: No data availat	ble
•	utoignition temperature	: No data availat	ble
D	ecomposition temperature	: No data availat	ble
V	iscosity Viscosity, dynamic	: No data availat	ble
	Viscosity, kinematic	: No data availat	ble
E	xplosive properties	: Not explosive	
	Oxidizing properties Iolecular weight	: The substance	or mixture is not classified as oxidizing.
IV	iolecular weight	. NO Gala availat	
Р	article size	: No data availat	ble

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.

Product:

Acute oral toxicity	:	Acute toxicity estimate: > 5,000 mg/kg Method: Calculation method
Acute inhalation toxicity	:	Acute toxicity estimate: > 10 mg/l Exposure time: 4 h



ersion)	Revision Date: 29.09.2023	-	OS Number: 812-00022	Date of last issue: 04.04.202 Date of first issue: 31.10.201
			Test atmosphere: Method: Calculati	
Com	ponents:			
Sucr	ose:			
Acute	e oral toxicity	:	LD50 (Rat): 29,70	00 mg/kg
Benz	yl alcohol:			
Acute	e oral toxicity	:	LD50 (Rat): 1,620) mg/kg
Acute	e inhalation toxicity	:	Exposure time: 4 Test atmosphere	h
Reco	mbinant Follicle Stimu	lati	ng Hormone:	
	e toxicity (other routes of nistration)	:	LD50 (Rat): > 0.2 Application Route	
			LD50 (Monkey): Application Route	
Skin	corrosion/irritation			
Not c	lassified based on availa	able	information.	
Com	ponents:			
Benz	yl alcohol:			
Spec		:	Rabbit	
Meth Resu	•••	:	OECD Test Guide No skin irritation	eline 404
11000		•		
Serio	ous eye damage/eye irr	itati	on	
Not c	lassified based on availa	able	information.	
<u>Com</u>	ponents:			
Benz	yl alcohol:			
Spec		:	Rabbit	
Resu Meth		:	Irritation to eyes, OECD Test Guide	reversing within 21 days
Meun	ou	•	OLOD Test Guid	
Resp	iratory or skin sensitiz	atio	n	
Skin	sensitization			

Not classified based on available information.

Respiratory sensitization

Not classified based on available information.



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<u>Comp</u>	oonents:		
Test 1	es of exposure es od	: Maximization : Skin contact : Guinea pig : OECD Test C : negative	
	cell mutagenicity assified based on av	ailable information	
	onents:		
Sucro			
Geno	toxicity in vitro	: Test Type: In Result: negat	vitro mammalian cell gene mutation test tive
Benzy	yl alcohol:		
Genot	toxicity in vitro	: Test Type: Ba Result: negat	acterial reverse mutation assay (AMES) tive
Genot	toxicity in vivo	cytogenetic a Species: Mou	use coute: Intraperitoneal injection
Reco	mbinant Follicle Sti	mulating Hormone:	
Geno	toxicity in vitro	: Test Type: A Result: negat	
			vitro mammalian cell gene mutation test mammalian cells tive
			hromosomal aberration Human lymphocytes tive
Genot	toxicity in vivo	: Test Type: M Species: Mou Result: negat	
	nogenicity assified based on av	ailable information.	
Comp	oonents:		
-	yl alcohol:		
Speci	es	: Mouse	



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		tion Route ire time I		Ingestion 103 weeks OECD Test Guide negative	line 451
	-	luctive toxicity mage fertility. May dar	nag	e the unborn child.	
	Compo	onents:			
	-	alcohol: on fertility	:	Species: Rat Application Route Result: negative	y/early embryonic development : Ingestion on data from similar materials
	Effects	on fetal development	:	Test Type: Embry Species: Mouse Application Route Result: negative	o-fetal development : Ingestion
	Recom	binant Follicle Stimu	latir	ng Hormone:	
		on fertility	:	Test Type: Fertility Species: Rat Application Route Fertility: LOAEL: (: Subcutaneous).11 on estrous cycle, Increase of early resorp-
				Test Type: Fertility Species: Rabbit Application Route Fertility: LOAEL: (Symptoms: Reduce Result: positive	Subcutaneous
	Effects	on fetal development	:	Test Type: Develo Species: Rat Application Route Dose: 2.9 µg/kg Result: positive, N	
	Reprod sessme	luctive toxicity - As- ent	:	fertility, based on	adverse effects on sexual function and animal experiments., Clear evidence of a development, based on animal

STOT-single exposure

Not classified based on available information.



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STOT-repeated exposure

Causes damage to organs (male reproductive organs, female reproductive organs) through prolonged or repeated exposure.

Components:

Recombinant Follicle Stimulating Hormone:

Target Organs	:	male reproductive organs, female reproductive organs
Assessment	:	Causes damage to organs through prolonged or repeated
		exposure.

Repeated dose toxicity

Components:

Benzyl alcohol:

Species	:	Rat
NOAEL	:	1.072 mg/l
Application Route	:	inhalation (dust/mist/fume)
Exposure time	:	28 Days
Method	:	OECD Test Guideline 412

Recombinant Follicle Stimulating Hormone:

Species NOAEL LOAEL Application Route Exposure time Number of exposures Target Organs Remarks	· · · · · · · · · · · · · · · · · · ·	Monkey 0.17 mg/kg 0.86 mg/kg Subcutaneous 13 Weeks daily Reproductive organs No significant adverse effects were reported
Species LOAEL Exposure time Target Organs Remarks		Rat 0.14 mg/kg 13 Weeks Endocrine system No significant adverse effects were reported
Species LOAEL Exposure time Target Organs Remarks		Dog 0.14 mg/kg 13 Weeks Testis No significant adverse effects were reported
Species NOAEL LOAEL Application Route Exposure time Target Organs		Rat 0.028 mg/kg 0.28 mg/kg Subcutaneous 1 year Testis
Species LOAEL	:	Monkey, male 0.028 mg/kg



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	sure time t Organs	:	1 year Testis	
-	ation toxicity assified based on availa	ble	information.	
Expe	rience with human exp	osu	ire	
<u>Comp</u>	oonents:			
Reco	mbinant Follicle Stimu	latiı	ng Hormone:	
Inhala	ation	:	Symptoms: gyn sea, Vomiting, I	ecomastia, Skin disorders, Headache, Nau- Diarrhea
CTION	12. ECOLOGICAL INFO	ORN	IATION	
Ecoto	oxicity			
Comp	oonents:			
Benz	yl alcohol:			
Toxici	ty to fish	:	LC50 (Pimepha Exposure time:	les promelas (fathead minnow)): 460 mg/l 96 h
	ty to daphnia and other ic invertebrates	:	Exposure time:	magna (Water flea)): 230 mg/l 48 h Test Guideline 202
Toxici plants	ty to algae/aquatic	:	mg/l Exposure time:	irchneriella subcapitata (green algae)): 770 72 h Test Guideline 201
			mg/l Exposure time:	kirchneriella subcapitata (green algae)): 310 72 h Test Guideline 201
	ty to daphnia and other ic invertebrates (Chron- city)	:	Exposure time:	a magna (Water flea)): 51 mg/l 21 d Test Guideline 211
Persi	stence and degradabil	ity		
<u>Comp</u>	oonents:			
Benz	yl alcohol:			
	gradability	:	Result: Readily Biodegradation: Exposure time:	92 - 96 %



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Bioa	accumulative potential		
Com	nponents:		
Part	rose: ition coefficient: n- nol/water	: Pow: < 1	
Part	zyl alcohol: ition coefficient: n- nol/water	: log Pow: 1.05	
	ility in soil lata available		
	er adverse effects lata available		
SECTION 13. DISPOSAL CONSIDERATIONS			

Disposal methods Waste from residues : Do not dispose of waste into sewer. 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

NOM-002-SCT Not regulated as a dangerous good

Special precautions for user

Not applicable

SECTION 15. REGULATORY INFORMATION

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



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Federal Law for the control of chemical precursors, essential chemical products and machinery for producing capsules, tablets and pills.			: Not applicable

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

AICS	:	not determined
DSL	:	not determined
IECSC	:	not determined

SECTION 16. OTHER INFORMATION

Revision Date Date format	:	29.09.2023 dd.mm.yyyy	
Full text of other abbreviations			
ACGIH NOM-010-STPS-2014	:	USA. ACGIH Threshold Limit Values (TLV) Mexico. Norm NOM-010-STPS-2014 on Chemicals Polluting the Work Environment - Identification, Assessment and Con- trol - Appendix 1 Occupational Exposure Limits	
ACGIH / TWA NOM-010-STPS-2014 / VLE- PPT		8-hour, time-weighted average Time weighted average limit value	

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 - Transporta-



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tion of Dangerous Goods; TECI - Thailand Existing Chemicals 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; WHMIS - Workplace Hazardous Materials Information System

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

The information is considered as correct, but not exhaustive, and will be used only as a guide, which is based in the current knowledge of the substance or mixture, and is applicable to proper safety precautions for the product.

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