

Version	Revision Date:	SDS Number:	Date of last issue: 13.09.2019
4.3	16.10.2020	26812-00016	Date of first issue: 31.10.2014

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name	:	Recombinant Follicle Stimulating Hormone Formulation
Manufacturer or supplier's	deta	ails
Company name of supplier Address		Organon & Co. Avenida 16 de Septiembre No. 301 Xaltocan - Xochimilco Mexico 16090
Telephone	:	52 55 57284444
Emergency telephone	:	215-631-6999
E-mail address	:	EHSSTEWARD@organon.com
Recommended use of the c	hen	nical and restrictions on use
Pecommended use		Pharmacoutical

Recommend	led use

: Pharmaceutical

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. Storage:
		P405 Store locked up.



Version	Revision Date:	SDS Number:	Date of last issue: 13.09.2019
4.3	16.10.2020	26812-00016	Date of first issue: 31.10.2014

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 Protection of first-aiders	:	May damage fertility. May damage the unborn child. Causes damage to organs through prolonged or repeated exposure. First Aid responders should pay attention to self-protection,
Notes to physician	:	and use the recommended personal protective equipment when the potential for exposure exists (see section 8). Treat symptomatically and supportively.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	:	Water spray
0 0		Alcohol-resistant foam
		Carbon dioxide (CO2)
		Dry chemical



Ver 4.3	sion	Revision Date: 16.10.2020		OS Number: 812-00016	Date of last issue: 13.09.2019 Date of first issue: 31.10.2014
	Unsuita media	able extinguishing	:	None known.	
Specific hazards during fire fighting		:	Exposure to comb	pustion products may be a hazard to health.	
		lous combustion prod-	:	Carbon oxides Metal oxides	
Specific extinguishing meth- ods		:	cumstances and t Use water spray t	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	
	•	l protective equipment fighters	:	In the event of fire	e, wear self-contained breathing apparatus. rective equipment.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- tive equipment and emer- gency procedures	Use personal protective equipment. Follow safe handling advice (see section 7) and personal protective equipment recommendations (see section 8).
Environmental precautions	 Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Prevent spreading over a wide area (e.g., by containment or oil barriers). Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained.
Methods and materials for containment and cleaning up	 Soak up with inert absorbent material. 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. Clean up remaining materials from spill with suitable absorbent. 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. Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.

SECTION 7. HANDLING AND STORAGE

Technical measures	ineering measures under EXPOSURE OLS/PERSONAL PROTECTION section.
Local/Total ventilation	ent ventilation is unavailable, use with local exhaust
Advice on safe handling	 et on skin or clothing. reathe mist or vapors. wallow.



Version 4.3	Revision Date: 16.10.2020	SDS Number: 26812-00016	Date of last issue: 13.09.2019 Date of first issue: 31.10.2014
		Handle in acc practice, base assessment Keep containe Do not eat, dr	with eyes. proughly after handling. ordance with good industrial hygiene and safety ed on the results of the workplace exposure er tightly closed. ink or smoke when using this product. prevent spills, waste and minimize release to the
Hygiene measures		: If exposure to flushing syste place. When using d	chemical is likely during typical use, provide eye ms and safety showers close to the working lo not eat, drink or smoke. inated clothing before re-use.
Conditions for safe storage		: Keep in prope Store locked u Keep tightly c	erly labeled containers. up.
Mate	rials to avoid		with the following product types: ng agents

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
Sucrose	57-50-1	VLE-PPT	10 mg/m³	NOM-010- STPS-2014
		TWA	10 mg/m ³	ACGIH
Recombinant Follicle Stimulat- ing Hormone	146479-72-3	TWA	5 µg/m³	Internal
		Wipe limit	50 µg/100 cm ²	Internal

Engineering measures	Minimize workplace exposure concentrations. If sufficient ventilation is unavailable, use with local exhaust ventilation.	
Personal protective equipmer	t	
Respiratory protection :	If adequate local exhaust ventilation is not available or exposure assessment demonstrates exposures outside the recommended guidelines, use respiratory protection.	
Filter type	Combined particulates and organic vapor type	
Hand protection		
Material	Chemical-resistant gloves	



Version 4.3	Revision Date: 16.10.2020	SDS Number: 26812-00016	Date of last issue: 13.09.2019 Date of first issue: 31.10.2014		
Eye protection : Skin and body protection :		on the concent time is not dete For special appresistance to c gloves with the	to protect hands against chemicals depending tration specific to place of work. Breakthrough ermined for the product. Change gloves often! plications, we recommend clarifying the hemicals of the aforementioned protective glove manufacturer. Wash hands before the end of workday.		
		: Wear the follow Safety glasses	wing personal protective equipment:		
		resistance data potential. Skin contact m	Select appropriate protective clothing based on chemical resistance data and an assessment of the local exposure potential. Skin contact must be avoided by using impervious protective clothing (gloves, aprons, boots, etc).		

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
Solubility(ies)		



Version 4.3	Revision Date: 16.10.2020	SDS Numbe 26812-0001	
	Water solubility		available
	rtition coefficient: n-	: No data	available
	anol/water toignition temperature	: No data	available
De	composition temperature	: No data	available
Vis	cosity Viscosity, dynamic	: No data	available
	Viscosity, kinematic	: No data	available
Ex	plosive properties	: Not exp	losive
Ox	idizing properties	: The sub	stance or mixture is not classified as oxidizing.
Мс	lecular weight	: No data	available
Pa	rticle size	: No data	available

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	:	Oxidizing agents

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 Test atmosphere: dust/mist Method: Calculation method



Version 4.3	Revision Date: 16.10.2020		DS Number: 812-00016	Date of last issue: 13.09.2019 Date of first issue: 31.10.2014
Comp	onents:			
Sucro	se:			
Acute	oral toxicity	:	LD50 (Rat): 29,70	00 mg/kg
Benzy	/l alcohol:			
	oral toxicity	:	LD50 (Rat): 1,620) mg/kg
Acute	inhalation toxicity	:	LC50 (Rat): > 4.1 Exposure time: 4 Test atmosphere: Method: OECD Te	h dust/mist
Recor	nbinant Follicle Stimu	lati	ng Hormone:	
Acute	toxicity (other routes of istration)		-	
			LD50 (Monkey): > Application Route	0 0

Skin corrosion/irritation

Not classified based on available information.

Components:

Benzyl alcohol:

Species	:	Rabbit
Method	:	OECD Test Guideline 404
Result	:	No skin irritation

Serious eye damage/eye irritation

Not classified based on available information.

Components:

Benzyl alcohol:

Species	:	Rabbit
Result	:	Irritation to eyes, reversing within 21 days
Method	:	OECD Test Guideline 405

Respiratory or skin sensitization

Skin sensitization

Not classified based on available information.

Respiratory sensitization

Not classified based on available information.

Components:

Benzyl alcohol:

Test Type

: Maximization Test



ersion .3	Revision Date: 16.10.2020	SDS Number: 26812-00016	Date of last issue: 13.09.2019 Date of first issue: 31.10.2014
Route Speci Metho Resul	bd	: Skin contact : Guinea pig : OECD Test G : negative	uideline 406
	a cell mutagenicity assified based on av	ailable information.	
Com	oonents:		
Sucro	ose:		
Geno	toxicity in vitro	: Test Type: In v Result: negativ	vitro mammalian cell gene mutation test ve
Benz	yl alcohol:		
Geno	toxicity in vitro	: Test Type: Ba Result: negativ	cterial reverse mutation assay (AMES) /e
Geno	toxicity in vivo	cytogenetic as Species: Mous	e ute: Intraperitoneal injection
Reco	mbinant Follicle Sti	mulating Hormone:	
Geno	toxicity in vitro	: Test Type: Am Result: negativ	
			vitro mammalian cell gene mutation test nammalian cells ve
		21	romosomal aberration łuman lymphocytes /e
Geno	toxicity in vivo	: Test Type: Mid Species: Mous Result: negativ	
	nogenicity lassified based on av	ailable information	
	oonents:		
	yl alcohol:		
Speci Applic	es cation Route sure time od	: Mouse : Ingestion : 103 weeks : OECD Test G : negative	uideline 451



Vers 4.3	sion	on Revision Date: SDS Number: 16.10.2020 26812-00016			Date of last issue: 13.09.2019 Date of first issue: 31.10.2014
	-	ductive toxicity Image fertility. May dar	nag	e the unborn child.	
	Compo	onents:			
	Benzyl alcohol: Effects 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:	
	Effects	on fertility	:	Test Type: Fertility Species: Rat Application Route Fertility: LOAEL: 0 Symptoms: Effect tions., Reduced fe Result: positive	: Subcutaneous).11 on estrous cycle, Increase of early resorp-
				Test Type: Fertility Species: Rabbit Application Route Fertility: LOAEL: 0 Symptoms: Reduc 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.

STOT-repeated exposure

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



Version 4.3	Revision Date: 16.10.2020	SDS Number 26812-00016	
Com	ponents:		
Beer	mhinant Falliala Stir	nulating Harma	n
Targe	ombinant Follicle Stir et Organs ssment	: male rep	oductive organs, female reproductive organs lamage to organs through prolonged or repeated
Repe	eated dose toxicity		
<u>Com</u>	ponents:		
Benz	yl alcohol:		
	EL cation Route sure time	: 28 Days	/l (dust/mist/fume) est Guideline 412
Reco	ombinant Follicle Stir	nulating Hormo	ne:
Spec NOA LOAE Appli Expo Numl	ies EL EL cation Route sure time ber of exposures et Organs arks	Monkey 0.17 mg/l 0.86 mg/l Subcutar 13 Weeks daily Reproduc	kg leous
LÒAE Expo	EL sure time et Organs	: 0.14 mg/l : 13 Weeks : Endocrine	5
	EL sure time et Organs	: Dog : 0.14 mg/l : 13 Week : Testis : No signifi	
Expo	EL	: Rat : 0.028 mg/ : 0.28 mg/l : Subcutar : 1 year : Testis	κġ
		: Monkey, : 0.028 mg : 1 year : Testis	



ersion 3	Revision Date: 16.10.2020	-	S Number: 812-00016	Date of last issue: 13.09.2019 Date of first issue: 31.10.2014	
•	ation toxicity assified based on availa	ble	information.		
Exper	ience with human exp	osu	ire		
Comp	onents:				
Recor	mbinant Follicle Stimu	latiı	ng Hormone:		
Inhalation : Symptoms: gynecomastia, Skin disorders, Headache, Nau sea, Vomiting, Diarrhea					
CTION	12. ECOLOGICAL INFO	DRN	ATION		
Ecoto	xicity				
<u>Comp</u>	onents:				
Benzy	/l alcohol:				
Toxici	ty to fish	:	LC50 (Pimepl Exposure time	hales promelas (fathead minnow)): 460 mg/l e: 96 h	
	ty to daphnia and other c invertebrates	:	Exposure time	ia magna (Water flea)): 230 mg/l e: 48 h D Test Guideline 202	
Toxici [:] plants	ty to algae/aquatic	:	mg/l Exposure time	okirchneriella subcapitata (green algae)): 770 e: 72 h D Test Guideline 201	
			mg/l Exposure time	dokirchneriella subcapitata (green algae)): 31 e: 72 h D Test Guideline 201	
	ty to daphnia and other ic invertebrates (Chron- city)	:	Exposure time	nia magna (Water flea)): 51 mg/l e: 21 d D Test Guideline 211	
Persis	stence and degradabili	ity			
<u>Comp</u>	oonents:				
Benzy	/l alcohol:				
Biode	gradability	:	Result: Readi Biodegradatic Exposure time		
Bioac	cumulative potential				
<u>Comp</u>	oonents:				
Sucro	se:				



Version 4.3	Revision Date: 16.10.2020	SDS Number: 26812-00016	Date of last issue: 13.09.2019 Date of first issue: 31.10.2014
	ion coefficient: n- ol/water	: Pow: < 1	
Benz	yl alcohol:		
	ion coefficient: n- ol/water	: log Pow: 1.05	
Mobi	lity in soil		
No da	ata available		
Othe	r adverse effects		
No da	ata available		

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods		
Waste from residues Contaminated packaging	:	Dispose of in accordance with local regulations. 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

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

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



Version 4.3	Revision Date: 16.10.2020	SDS Number: 26812-00016	Date of last issue: 13.09.2019 Date of first issue: 31.10.2014
AICS		: not determined	
DSL		: not determined	
IECS	C	: not determined	

SECTION 16. OTHER INFORMATION

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 - 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

Sources of key data used to : Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agen-



Version 4.3	Revision Date: 16.10.2020	SDS Number: 26812-00016	Date of last issue: 13.09.2019 Date of first issue: 31.10.2014
Data Sheet		cy, http://echa.europa.eu/	
Revision Date		: 16.10.2020	

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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