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SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name	: Recombinant Follicle Stimulating Hormone Formulation						
Manufacturer or supplier's details							
Company	: Organon & Co.						
Address	: Rua Treze de Maio, 1161 Campinas, São Paulo, Brazil B-2220						
Telephone	: 551-430-6000						
Emergency telephone	: 215-631-6999						
E-mail address	: EHSSTEWARD@organon.com						
Performended use of the a	homical and restrictions on use						

Recommended use of the chemical and restrictions on use

Recommended use :	:	Pharmaceutical
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SECTION 2. HAZARDS IDENTIFICATION

GHS Classification in accordance with ABNT NBR 14725 Standard						
Reproductive toxicity	:	Category 1B				
Specific target organ toxicity - repeated exposure	:	Category 1 (male reproductive organs, female reproductive organs)				

GHS label elements in accordance with ABNT NBR 14725 Standard

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. P264 Wash skin thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P280 Wear protective gloves/ protective clothing/ eye protec- tion/ face protection.
	Response:



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P308 + P313 IF exposed or concerned: Get medical advice/ attention.

Storage:

P405 Store locked up.

Other hazards which do not result in classification

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Classification	Concentration (% w/w)
Sucrose	57-50-1		>= 5 -< 10
Benzyl alcohol	100-51-6	Acute toxicity (Oral), Category 4 Acute toxicity (Inhala- tion), Category 4 Eye irritation, Category 2A	>= 1 -< 5
Recombinant Follicle Stimu- lating Hormone	146479-72-3	Reproductive toxicity, Category 1B Specific target organ toxicity - repeated exposure (male repro- ductive organs, female reproductive organs), Category 1	>= 0,1 -< 0,3

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.	
In case of skin contact	Get medical attention. 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.	
In case of eye contact	Thoroughly clean shoes before reuse. 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.	



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Most important symptoms and effects, both acute and delayed Protection of first-aiders Notes to physician		:	Rinse mouth thoroughly with water. 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-protectior and use the recommended personal protective equipment when the potential for exposure exists (see section 8). Treat symptomatically and supportively.			
		. FIRE-FIGHTING MEA				
Suitable extinguishing media		:	Water spray Alcohol-resistant f Carbon dioxide (C Dry chemical			
Unsuitable extinguishing media		:	None known.			
	Specific hazards during fire fighting		:	Exposure to combustion products may be a hazard to health.		
	Hazard ucts	ous combustion prod-	:	Carbon oxides Metal oxides		
	Specific extinguishing meth- ods		:	cumstances and t Use water spray to 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 protective equipment for fire-fighters		:	Evacuate area. In the event of fire Use personal prot	e, wear self-contained breathing apparatus. ective equipment.	
SEC	SECTION 6. ACCIDENTAL RELEAS			E MEASURES		
	tive equ	al precautions, protec- upment and emer- procedures	:		ective equipment. ing advice (see section 7) and personal ent recommendations (see section 8).	
	Enviror	mental 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	:	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
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	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	N 7. HANDLING AND ST	TORAGE				
Tech	nnical measures		ng measures under EXPOSURE ERSONAL PROTECTION section.			
Loca	al/Total ventilation		tilation is unavailable, use with local exhaust			
Advi	ce on safe handling	Do not breathe Do not swallow Avoid contact w Wash skin thor Handle in acco practice, based assessment Keep containe Do not eat, drir	with eyes. roughly after handling. rdance with good industrial hygiene and safety d on the results of the workplace exposure			
Hygi	ene measures	flushing systen place. When using do	chemical is likely during typical use, provide eye ns and safety showers close to the working o not eat, drink or smoke. nated clothing before re-use.			
Con	ditions for safe storage	Store locked u Keep tightly clo				
Mate	erials to avoid		ith the following product types: g 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	TŴA	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.



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		If sufficient ventilat ventilat		ation is unavailable, use with local exhaust	
Pers	onal protective equipn	ent			
Filter type Hand protection		expos recorr	If adequate local exhaust ventilation is not available or exposure assessment demonstrates exposures outside the recommended guidelines, use respiratory protection. Combined particulates and organic vapor type		
М	laterial	: Chem	ical-resistar	nt gloves	
Remarks		on the time is For sp resista gloves	Choose gloves to protect hands against chemicals deper- on the concentration specific to place of work. Breakthro- time is not determined for the product. Change gloves o 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	Eye protection		Wear the following personal protective equipment: Safety glasses		
Skin and body protection :		: Selec resista poten Skin c	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



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		explosion limit / Upper bility limit	:	No data available	
		explosion limit / Lower bility limit	:	No data available	
	Vapor p	pressure	:	No data available	
	Relative	e vapor density	:	No data available	
	Density		:	No data available	
	Solubili Wate	ty(ies) er solubility	:	No data available	
	Partition octanol	n coefficient: n-	:	No data available	
		ition temperature	:	No data available	
	Decom	position temperature	:	No data available	
	Viscosit Visc	ty osity, dynamic	:	No data available	
	Visc	osity, kinematic	:	No data available	
	Explosi	ve properties	:	Not explosive	
	Oxidizir	ng properties	:	The substance or	mixture is not classified as oxidizing.
	Molecu	lar weight	:	No data available	
	Particle	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	:	None known. Oxidizing agents No hazardous decomposition products are known.

SECTION 11. TOXICOLOGICAL INFORMATION

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



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e toxicity				
•	lable	information.		
uct:				
oral toxicity	:	Acute toxicity e Method: Calcul	stimate: > 5.000 mg/kg ation method	
inhalation toxicity	:	Acute toxicity e Exposure time: Test atmosphe Method: Calcul	re: dust/mist	
oonents:				
ose:				
oral toxicity	:	LD50 (Rat): 29	.700 mg/kg	
yl alcohol:				
oral toxicity	:	LD50 (Rat): 1.6	20 mg/kg	
inhalation toxicity	:	Exposure time: Test atmosphe	4 h	
mbinant Follicle Stim	ulatir	ng Hormone:		
toxicity (other routes c nistration)	of :),290 mg/kg ute: Intravenous	
			i: > 0,290 mg/kg ute: Intravenous	
corrosion/irritation				
assified based on avai	lable	information.		
oonents:				
yl alcohol:				
		Rabbit		
es od	•	OECD Test Gu		
	e toxicity assified based on avail <u>Jet:</u> oral toxicity inhalation toxicity Donents: Donents: oral toxicity yl alcohol: oral toxicity inhalation toxicity inhalation toxicity mbinant Follicle Stim toxicity (other routes of histration)	e toxicity assified based on available uct: oral toxicity inhalation toxicity inhalation toxicity conents: oral toxicity oral toxicity inhalation toxicity	 assified based on available information. assified based on available information. act: oral toxicity Acute toxicity e Method: Calcul inhalation toxicity Acute toxicity e Exposure time: Test atmosphe Method: Calcul ponents: oral toxicity LD50 (Rat): 29. yl alcohol: oral toxicity LD50 (Rat): 1.6 inhalation toxicity LC50 (Rat): 29. yl alcohol: oral toxicity LD50 (Rat): 1.6 inhalation toxicity LC50 (Rat): 1.6 inhalation toxicity LC50 (Rat): 2.9 mbinant Follicle Stimulating Hormone: toxicity (other routes of : LD50 (Rat): 20 mbinant Follicle Stimulating Hormone:	

Irritation to eyes, reversing within 21 daysOECD Test Guideline 405

Method



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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
Routes of exposure	:	Skin contact
Species	:	Guinea pig
Method	:	OECD Test Guideline 406
Result	:	negative

Germ cell mutagenicity

Not classified based on available information.

Components:

Sucrose:

Genotoxicity in vitro	:	Test Type: In vitro mammalian cell gene mutation test
		Result: negative

Benzyl alcohol:

Genotoxicity in vitro	:	Test Type: Bacterial reverse mutation assay (AMES) Result: negative
Genotoxicity in vivo	:	Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay) Species: Mouse Application Route: Intraperitoneal injection Result: negative

Recombinant Follicle Stimulating Hormone:

Genotoxicity in vitro	: Test Type: Ames test Result: negative
	Test Type: In vitro mammalian cell gene mutation test Test system: mammalian cells Result: negative
	Test Type: Chromosomal aberration Test system: Human lymphocytes Result: negative
Genotoxicity in vivo	: Test Type: Micronucleus test Species: Mouse Result: negative



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	inogenicity lassified based on availa	able	information.	
Com	ponents:			
Benz	yl alcohol:			
	cation Route sure time od	::	Mouse Ingestion 103 weeks OECD Test Guid negative	eline 451
-	oductive toxicity damage fertility. May dar	nag	e the unborn child	
Com	ponents:			
Benz	yl alcohol:			
Effec	ts on fertility	:	Species: Rat Application Route Result: negative	ty/early embryonic development e: Ingestion on data from similar materials
Effec	ts on fetal development	:	Test Type: Embry Species: Mouse Application Route Result: negative	yo-fetal development e: Ingestion
Reco	mbinant Follicle Stimu	latii	na Hormone:	
	Effects on fertility :		Test Type: Fertili Species: Rat Application Route Fertility: LOAEL:	e: Subcutaneous 0,11 t on estrous cycle, Increase of early resorp
			Test Type: Fertilit Species: Rabbit Application Route Fertility: LOAEL: Symptoms: Redu Result: positive	e: Subcutaneous
Effec	ts on fetal development	:	Test Type: Devel Species: Rat	



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Repr sessi	oductive toxicity - As- ment	f a	ertility, based	e of adverse effects on sexual function and on animal experiments., Clear evidence of is on development, based on animal
	T-single exposure lassified based on avail	lable in	formation.	
	T-repeated exposure			
Caus			productive or	gans, female reproductive organs) through pro-
<u>Com</u>	ponents:			
Reco	mbinant Follicle Stim	ulating	Hormone:	
Targe	et Organs ssment	: r : (nale reproduc	ctive organs, female reproductive organs ge to organs through prolonged or repeated
Repe	eated dose toxicity			
<u>Com</u>	ponents:			
Benz	yl alcohol:			
Spec			Rat	
NOA	EL cation Route		l,072 mg/l nhalation (du	st/mist/fumo)
	sure time		28 Days	
Meth			DECD Test G	uideline 412
Reco	ombinant Follicle Stim	ulatinc	Hormone:	
Spec		-	, Nonkey	
NOA),17 mg/kg	
LOAI),86 mg/kg	
	cation Route			3
	sure time ber of exposures		I3 Weeks Jaily	
	et Organs		Reproductive	organs
Rema				adverse effects were reported
Spec	ies		Rat	
),14 mg/kg	
	sure time		13 Weeks	tom
Targe Rema	et Organs arks		Endocrine sys No significant	adverse effects were reported
Spec	ies	: [Dog	
LOA	EL	: (),14 mg/kg	
	sure time		13 Weeks	
	et Organs		lestis	- Landar Martin
Rema	arks	: 1	vo significant	adverse effects were reported
Spec	ies	: F	Rat	

ic toxicity)



Recombinant Follicle Stimulating Hormone Formulation

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Expos		::	0,028 mg/kg 0,28 mg/kg Subcutaneous 1 year Testis	
		:	Monkey, male 0,028 mg/kg 1 year Testis	
-	ition toxicity assified based on availa	ble	information.	
Exper	ience with human exp	osı	ıre	
<u>Comp</u>	onents:			
Recon	nbinant Follicle Stimu	lati	ng Hormone:	
Inhalat	ion	:	Symptoms: gynee	comastia, Skin disorders, Headache, Na
			sea, Vomiting, Di	
	2. ECOLOGICAL INFO	ORM	-	
		ORM	-	
Ecoto	xicity	ORI	-	
Ecoto		DRI	-	
Ecoto <u>Comp</u> Benzy	xicity <u>onents:</u> I alcohol:	DRI	MATION	arrhea
Ecoto <u>Comp</u> Benzy	xicity onents:	DRI :	MATION	arrhea es promelas (fathead minnow)): 460 mg/l
Ecoto: Comp Benzy Toxicit	xicity <u>onents:</u> I alcohol:	:	LC50 (Pimephale Exposure time: 9 EC50 (Daphnia n Exposure time: 4	arrhea es promelas (fathead minnow)): 460 mg/l 6 h nagna (Water flea)): 230 mg/l
Ecoto: Comp Benzy Toxicit Toxicit aquatic	xicity <u>onents:</u> I alcohol: y to fish y to daphnia and other	:	ATION LC50 (Pimephale Exposure time: 9 EC50 (Daphnia n Exposure time: 4 Method: OECD T EC50 (Pseudokir mg/l Exposure time: 7	arrhea es promelas (fathead minnow)): 460 mg/l 6 h nagna (Water flea)): 230 mg/l 8 h est Guideline 202 chneriella subcapitata (green algae)): 77
Ecoto: Comp Benzy Toxicit Toxicit aquatic	xicity onents: I alcohol: y to fish y to daphnia and other c invertebrates	:	ATION LC50 (Pimephale Exposure time: 9 EC50 (Daphnia m Exposure time: 4 Method: OECD T EC50 (Pseudokir mg/l Exposure time: 7 Method: OECD T NOEC (Pseudoki mg/l Exposure time: 7	arrhea es promelas (fathead minnow)): 460 mg/l 6 h nagna (Water flea)): 230 mg/l 8 h est Guideline 202 chneriella subcapitata (green algae)): 77 2 h est Guideline 201 rchneriella subcapitata (green algae)): 3:

Method: OECD Test Guideline 211



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Pers	istence and degrada	bility	
<u>Com</u>	ponents:		
Benz	yl alcohol:		
Biode	egradability		adily biodegradable. tion: 92 - 96 % me: 14 d
Bioa	ccumulative potentia	ıl	
Com	ponents:		
Sucr	ose:		
	ion coefficient: n- nol/water	: Pow: < 1	
Benz	yl alcohol:		
	ion coefficient: n- nol/water	: log Pow: 1,	05
Mobi	lity in soil		
No da	ata available		
Othe	r adverse effects		
No da	ata available		

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

ANTT Not regulated as a dangerous good



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Safet mixtu		nmental regulations/	legislation specific for the substance or
Natio (LINA		ic Agents for Humans	- : Not applicable
Brazi Police		ntrolled by the Federa	I : Not applicable
Inter	national Regulations	5	
The i AICS	•	roduct are reported in : not determined	n the following inventories:
DSL		: not determine	b
IECS	SC	: not determine	b

SECTION 16. OTHER INFORMATION

Further information		
Sources of key data used to compile the Material 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/

Full text of other abbreviations

ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)
ACGIH / TWA	:	8-hour, time-weighted average

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



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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 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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