

Version	Revision Date:	SDS Number:	Date of last issue: 2019/09/13
3.8	2020/10/16	26799-00016	Date of first issue: 2014/10/31

#### **1. PRODUCT AND COMPANY IDENTIFICATION**

Product name	:	Recombinant Follicle Stimulating Hormone Formulation
Manufacturer or supplier's de	eta	ils
Company	:	Organon & Co.
Address	:	30 Hudson Street, 33nd floor Jersey City, New Jersey, U.S.A 07302
Telephone	:	551-430-6000
Emergency telephone number	:	215-631-6999
E-mail address	:	EHSSTEWARD@organon.com
Recommended use of the ch	em	ical and restrictions on use

### Recommended use : Pharmaceutical

#### 2. HAZARDS IDENTIFICATION

#### **Emergency Overview**

Appearance Colour Odour	:	liquid No data available No data available
May damage fertility. May dama longed or repeated exposure.	age	e the unborn child. Causes damage to organs through pro-
GHS Classification Reproductive toxicity	:	Category 1B
Specific target organ toxicity - repeated exposure	:	Category 1
GHS label elements		
Hazard pictograms	:	
Signal word	:	Danger
Hazard statements	:	H360FD May damage fertility. May damage the unborn child. H372 Causes damage to organs through prolonged or repeated exposure.
Precautionary statements	:	Prevention:



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		P202 Do not h and understoc P260 Do not b P264 Wash sl P270 Do not e	oreathe mist or vapours. kin thoroughly after handling. eat, drink or smoke when using this product. otective gloves/ protective clothing/ eye protec-
		<b>Response:</b> P308 + P313 attention.	IF exposed or concerned: Get medical advice/
		<b>Storage:</b> P405 Store lo	cked up.
		<b>Disposal:</b> P501 Dispose disposal plant	of contents/ container to an approved waste

#### Physical and chemical hazards

Not classified based on available information.

#### Health hazards

May damage fertility. May damage the unborn child. Causes damage to organs through prolonged or repeated exposure.

#### **Environmental hazards**

Not classified based on available information.

#### Other hazards which do not result in classification

None known.

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

#### Components

Chemical name	CAS-No.	Concentration (% w/w)
Sucrose	57-50-1	>= 1 -< 10
Benzyl alcohol	100-51-6	>= 1 -< 10
Recombinant Follicle Stimulating Hormone	146479-72-3	>= 0.1 -< 0.3

#### 4. FIRST AID MEASURES

General advice	:	In the case of accident or if you feel unwell, seek medical ad- vice immediately. When symptoms persist or in all cases of doubt seek medical advice.
If inhaled	:	If inhaled, remove to fresh air. Get medical attention.



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In cas	se of skin contact	:	of water. Remove contam Get medical atte Wash clothing be	
In cas	In case of eye contact		Flush eyes with	water as a precaution.
lf swa	llowed	:	If swallowed, DC Get medical atte	
and e delay		:	May damage fer Causes damage exposure.	roughly with water. tility. May damage the unborn child. to organs through prolonged or repeated
	ction of first-aiders	:	and use the reco when the potenti	ders should pay attention to self-protection, ommended personal protective equipment al for exposure exists (see section 8).
	to physician	•		tically and supportively.
			Mater en rev	
Suita	ble extinguishing media	:	Water spray Alcohol-resistant Carbon dioxide (	
	itable extinguishing	:	Dry chemical None known.	
media Speci	a fic hazards during fire-	:	None known.	ubustion products may be a hazard to health.
media Speci fightir	a fic hazards during fire-	: : :	None known.	ubustion products may be a hazard to health.
media Speci fightir Haza ucts	a fic hazards during fire- ig	: : :	None known. Exposure to com Carbon oxides Metal oxides Use extinguishin cumstances and Use water spray	bustion products may be a hazard to health. g measures that are appropriate to local cir- the surrounding environment. to cool unopened containers. aged containers from fire area if it is safe to de

### Personal precautions, protective equipment and emergency procedures 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



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	ds and materials for nment and cleaning up	For large spills, p ment to keep ma be pumped, stor Clean up remain bent. Local or national posal of this mat employed in the mine which regu Sections 13 and	ined. The absorbent material. Drovide dyking or other appropriate contain- aterial from spreading. If dyked material can the recovered material in appropriate container. Ing materials from spill with suitable absor- regulations may apply to releases and dis- terial, as well as those materials and items cleanup of releases. You will need to deter- lations are applicable. 15 of this SDS provide information regarding ational requirements.

#### 7. HANDLING AND STORAGE

Handling
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nanunng		
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. 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 as- sessment 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.
Avoidance of contact	:	Oxidizing agents
Storage		
Conditions for safe storage	:	Keep in properly labelled containers. Store locked up. Keep tightly closed. Store in accordance with the particular national regulations.
Materials to avoid	:	Do not store with the following product types: Strong oxidizing agents
Packaging material	:	Unsuitable material: None known.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters

Components	CAS-No.	Value type	Control parame-	Basis
		(Form of	ters / Permissible	



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-			exposure)	concentration	
Sucrose		57-50-1	TWA	10 mg/m3	ACGIH
Recombinant Follicle Stimu ing Hormone	ılat-	146479-72-3	TWA	5 µg/m3	Internal
			Wipe limit	50 µg/100 cm <sup>2</sup>	Internal
Engineering measures	:			e concentrations. vailable, use with loc	al exhaust
Personal protective equip	oment				
Respiratory protection	:	sure assessm	ent demonstra	ntilation is not availal ites exposures outsic respiratory protection	le the rec-
Filter type	:	Combined par	rticulates and o	organic vapour type	
Eye/face protection	:	Wear the follo Safety glasse		protective equipmen	t:
Skin and body protection	:	resistance dat potential. Skin contact r	ta and an asse nust be avoide	e clothing based on c ssment of the local e d by using imperviou	exposure
Hand protection			es, aprons, boo	JIS, EIC).	
Material	:	Chemical-resi	stant gloves		
Remarks	:	on the concer stance and sp determined fo applications, v chemicals of t	ntration and qu becific to place r the product. ( we recommence he aforemention cturer. Wash h	nds against chemica antity of the hazardor of work. Breakthroug Change gloves often d clarifying the resista oned protective glove ands before breaks a	us sub- gh time is not ! For special ance to es with the
Hygiene measures	:	If exposure to eye flushing s ing place. When using d	chemical is lik ystems and sa o not eat, drink	ely during typical use ifety showers close to or smoke. before re-use.	

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	liquid
Colour	:	No data available
Odour	:	No data available
Odour Threshold	:	No data available



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	рН		:	No data available	
	Melting	point/freezing point	:	No data available	
	Initial bo range	piling point and boiling	:	No data available	
	Flash p	oint	:	No data available	
	Evapora	ation rate	:	No data available	
	Flamma	ability (solid, gas)	:	Not applicable	
	Flamma	ability (liquids)	:	No data available	
		explosion limit / Upper bility limit	:	No data available	
		explosion limit / Lower bility limit	:	No data available	
	Vapour	pressure	:	No data available	
	Relative	e vapour density	:	No data available	
	Density		:	No data available	
	Solubilit Wate	ty(ies) er solubility	:	No data available	
	Partitior octanol/	n coefficient: n-	:	No data available	
		nition temperature	:	No data available	
	Decomp	position temperature	:	No data available	
	Viscosit Visc	y osity, dynamic	:	No data available	
	Visc	osity, kinematic	:	No data available	
	Explosiv	ve properties	:	Not explosive	
	Oxidizin	ng properties	:	The substance or	mixture is not classified as oxidizing.
	Molecul	ar weight	:	No data available	
	Particle	size	:	No data available	

### **10. STABILITY AND REACTIVITY**



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	Possibi tions Conditi Incomp	cal stability lity of hazardous reac- ons to avoid atible materials ous decomposition	:	Stable under nor Can react with st None known. Oxidizing agents	a reactivity hazard. mal conditions. rong oxidizing agents. composition products are known.
11.	тохісс	LOGICAL INFORMAT		N	
	Exposu	ire routes	:	Inhalation Skin contact Ingestion Eye contact	
		toxicity			
		ssified based on availa	ble	information.	
	Produc Acute c	oral toxicity	:	Acute toxicity estine Method: Calculation	mate: > 5,000 mg/kg on method
	Acute i	nhalation toxicity	:	Acute toxicity estin Exposure time: 4 Test atmosphere: Method: Calculation	h dust/mist
	Compo	onents:			
	Sucros	se:			
	Acute o	oral toxicity	:	LD50 (Rat): 29,70	0 mg/kg
	Benzyl	alcohol:			
	-	oral toxicity	:	LD50 (Rat): 1,620	mg/kg
	Acute i	nhalation toxicity	:	LC50 (Rat): > 4.1 Exposure time: 4 Test atmosphere: Method: OECD Te	h dust/mist
	Recom	binant Follicle Stimu	latir	ng Hormone:	
		oxicity (other routes of stration)	:	LD50 (Rat): > 0.29 Application Route	
				LD50 (Monkey): > Application Route	

#### Skin corrosion/irritation

Not classified based on available information.



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#### 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 sensitisation

#### Skin sensitisation

Not classified based on available information.

#### Respiratory sensitisation

Not classified based on available information.

#### Components:

#### Benzyl alcohol:

Test Type	: Maximisation Test	
Exposure routes	: Skin contact	
Species	: Guinea pig	
Method	: OECD Test Guideline 4	06
Result	: negative	

#### Germ cell mutagenicity

Not classified based on available information.

#### Components:

Su	crose:	

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



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		Result: negat	ve
Reco	ombinant Follicle Stim	ulating Hormone:	
Geno	otoxicity in vitro	: Test Type: Ar Result: negat	
			vitro mammalian cell gene mutation test mammalian cells ve
			nromosomal aberration Human lymphocytes ve
Geno	otoxicity in vivo	: Test Type: Mi Species: Mou Result: negat	
	<b>inogenicity</b> classified based on avail	able information.	
<u>Com</u>	ponents:		
Benz	zyl alcohol:		
	ication Route osure time od	: Mouse : Ingestion : 103 weeks : OECD Test G : negative	uideline 451
-	r <b>oductive toxicity</b> damage fertility. May da	mage the unborn c	nild.
<u>Com</u>	ponents:		
	<b>zyl alcohol:</b> ets on fertility	Species: Rat Application R Result: negat	rtility/early embryonic development oute: Ingestion ve sed on data from similar materials
Effec ment	ts on foetal develop-	Species: Mou	oute: Ingestion
Reco	ombinant Follicle Stim	ulating Hormone:	
	ts on fertility	: Test Type: Fe Species: Rat	rtility oute: Subcutaneous

#### SAFETY DATA SHEET according to GB/T 16483 and GB/T 17519



### Recombinant Follicle Stimulating Hormone Formulation

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			Effect on estrous cycle, Increase of early resorp- uced fertility
		Fertility: LC	abbit Route: Subcutaneous DAEL: 0.027 Reduced fertility, Reduced embryonic survival
Effeo men	cts on foetal develop- t	Species: R Application Dose: 2.9 µ	Route: Subcutaneous
•	oductive toxicity - As- ment	ity, based o	ence of adverse effects on sexual function and fertil- on animal experiments., Clear evidence of adverse development, based on animal experiments.
	T - single exposure classified based on avail	able information.	
STO	T - repeated exposure		

Causes damage to 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	:	Monkey
NOAEL	:	0.17 mg/kg
LOAEL	:	0.86 mg/kg
Application Route	:	Subcutaneous
Exposure time	:	13 Weeks

### SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519



# Recombinant Follicle Stimulating Hormone Formulation

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	Numbe Target ( Remark		:	daily Reproductive orga No significant adv	ans erse effects were reported		
-	Species LOAEL Exposu Target ( Remark	re time Organs	:	Rat 0.14 mg/kg 13 Weeks Endocrine system No significant adv	erse effects were reported		
	Species LOAEL Exposu Target ( Remark	re time Organs	:	Dog 0.14 mg/kg 13 Weeks Testis No significant adv	erse effects were reported		
	Species NOAEL LOAEL Applica Exposu Target (	tion Route re time		Rat 0.028 mg/kg 0.28 mg/kg Subcutaneous 1 year Testis			
	Species LOAEL Exposu Target (	re time	:	<ul> <li>Monkey, male</li> <li>0.028 mg/kg</li> <li>1 year</li> <li>Testis</li> </ul>			
	-	<b>ion toxicity</b> ssified based on availa	ble	information.			
	Experie	ence with human exp	osu	re			
	Compo	onents:					
Recombinant Follicle Stimulating Hormone:							
	Inhalati	on	:	Symptoms: gyneo sea, Vomiting, Dia	omastia, Skin disorders, Headache, Nau- arrhoea		
12. E	COLO	GICAL INFORMATION	N				
	Ecotox	icity					
	Compo	onents:					
	Benzyl	alcohol:					
	Toxicity	to fish	:	LC50 (Pimephale Exposure time: 96	s promelas (fathead minnow)): 460 mg/l S h		
		to daphnia and other invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: OECD To			



ersion 3	Revision Date: 2020/10/16		98 Number: 799-00016	Date of last issue: 2019/09/13 Date of first issue: 2014/10/31	
Toxicity to algae/aquatic plants		:	mg/l Exposure time: 7	rchneriella subcapitata (green algae)): 770 72 h Test Guideline 201	
			mg/l Exposure time: 7	irchneriella subcapitata (green algae)): 310 72 h Test Guideline 201	
Toxicity to daphnia and other aquatic invertebrates (Chron-ic toxicity)		:	NOEC (Daphnia magna (Water flea)): 51 mg/l Exposure time: 21 d Method: OECD Test Guideline 211		
Persi	stence and degradabil	ity			
Comp	oonents:				
Benzy	yl alcohol:				
-	odegradability :		Result: Readily biodegradable. Biodegradation: 92 - 96 % Exposure time: 14 d		
Bioad	cumulative potential				
Comp	oonents:				
Sucro	ose:				
	on coefficient: n- ol/water	:	: Pow: < 1		
Benzy	yl alcohol:				
	on coefficient: n- ol/water	:	log Pow: 1.05		
Mobil	ity in soil				
No da	ta available				
Other	adverse effects				
No da	ita available				

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



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#### **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.

#### **National Regulations**

#### GB 6944/12268

Not regulated as a dangerous good

#### Special precautions for user

Not applicable

#### **15. REGULATORY INFORMATION**

#### National regulatory information Law on the Prevention and Control of Occupational Diseases

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

AICS	:	not determined
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 Agency, http://echa.europa.eu/			
Date format	yyyy/mm/dd			
Full text of other abbreviations				
ACGIH	USA. ACGIH Threshold Limit Values (TLV)			
ACGIH / TWA	8-hour, time-weighted average			



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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

#### Disclaimer

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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