

Version 5.11	Revision Date: 29.09.2023		9S Number: 781-00024	Date of last issue: 04.04.2023 Date of first issue: 31.10.2014
SECTION	1. IDENTIFICATION			
Prod	luct name	:	Recombinant Fo	Ilicle Stimulating Hormone Formulation
Man	ufacturer or supplier's	s deta	ils	
Com	pany	:	Organon & Co.	
Addı	ess	:	30 Hudson Stree Jersey City, Nev	et, 33nd floor v Jersey, U.S.A 07302
Tele	phone	:	1-551-430-6000	
Eme	rgency telephone	:	1-215-631-6999	
E-ma	ail address	:	EHSSTEWARD	@organon.com
Rec	ommended use of the	chem	nical and restricti	ons on use
	ommended use rictions on use	:	Pharmaceutical 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 organs)
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	:	<b>Prevention:</b> 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.



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		P270 Do not e	kin thoroughly after handling. eat, drink or smoke when using this product. rotective gloves/ protective clothing/ eye protec- tection.
		Response:	
		P308 + P313 attention.	IF exposed or concerned: Get medical advice/
		Storage:	
		P405 Store lo	ocked up.
		Disposal:	
		PE01 Dispose	of contents/ container to an approved waste

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

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

None known.

#### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture	:	Mixture
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#### 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 -< 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. 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,



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Notes	to physician	:	when the poter	commended personal protective equipment tial for exposure exists (see section 8). atically and supportively.
SECTION	5. FIRE-FIGHTING ME	ASL	IRES	
Suital	ole extinguishing media	:	Water spray Alcohol-resista Carbon dioxide Dry chemical	
Unsu media	itable extinguishing	:	None known.	
Speci fightir	fic hazards during fire	:	Exposure to co	mbustion products may be a hazard to health.
Haza ucts	rdous combustion prod-	:	Carbon oxides Metal oxides	
Speci ods	fic extinguishing meth-	:	cumstances an Use water spra	ng measures that are appropriate to local cir- d the surrounding environment. y to cool unopened containers. naged containers from fire area if it is safe to do
•	al protective equipment e-fighters	:	In the event of	fire, wear self-contained breathing apparatus. rotective 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.



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#### SECTION 7. HANDLING AND STORAGE

Technical measures	:	See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section. 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 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.
Conditions for safe storage	:	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 with the following product types: Strong oxidizing agents Self-reactive substances and mixtures Organic peroxides Explosives Gases

#### 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	CMP	10 mg/m <sup>3</sup>	AR OEL
	Further information	ation: A4 - Not c	lassifiable as a huma	n carcinogen
		TWA	10 mg/m <sup>3</sup>	ACGIH
Recombinant Follicle Stimulat- ing Hormone	146479-72-3	TWA	5 µg/m3 (OEB 4)	Internal
		Wipe limit	50 µg/100 cm <sup>2</sup>	Internal

Engineering measures	I	Minimize workplace exposure concentrations. If sufficient ventilation is unavailable, use with local exhaust ventilation.
Personal protective equipmer	nt	

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



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Hand	d protection		
Ν	laterial	: Chemical-re	sistant gloves
R	emarks	on the conce time is not d For special a resistance to gloves with t	es to protect hands against chemicals depending entration specific to place of work. Breakthrough etermined for the product. Change gloves often! applications, we recommend clarifying the o chemicals of the aforementioned protective he glove manufacturer. Wash hands before at the end of workday.
Eye	protection		lowing personal protective equipment:
Skin	and body protection	: Select appro resistance d potential. Skin contact	priate protective clothing based on chemical ata and an assessment of the local exposure must be avoided by using impervious protective ves, aprons, boots, etc).
Hygi	ene measures	: If exposure t eye flushing working plac When using	o chemical is likely during typical use, provide systems and safety showers close to the

#### 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



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Vapor pressure	: No data available
Relative vapor density	: No data available
Density	: No data available
Solubility(ies)	
Water solubility	: No data available
Partition coefficient: n- octanol/water	: No data available
Autoignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity Viscosity, dynamic	: No data available
Viscosity, kinematic	: No data available
Explosive properties	: Not explosive
Oxidizing properties	: The substance or mixture is not classified as oxidizing.
Molecular 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

#### Acute toxicity

Not classified based on available information.

#### Product:



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Acu	te oral toxicity	:	Acute toxicity esti Method: Calculati	mate: > 5.000 mg/kg on method
Acu	te inhalation toxicity	:	Acute toxicity esti Exposure time: 4 Test atmosphere: Method: Calculati	h dust/mist
<u>Cor</u>	nponents:			
Suc	crose:			
Acu	te oral toxicity	:	LD50 (Rat): 29.70	0 mg/kg
Ber	nzyl alcohol:			
Acu	te oral toxicity	:	LD50 (Rat): 1.620	mg/kg
Acu	te inhalation toxicity	:	LC50 (Rat): > 4,1 Exposure time: 4 Test atmosphere: Method: OECD Te	h dust/mist
Rec	combinant Follicle Stimu	lati	na Hormone:	
Acu	ite toxicity (other routes of ninistration)		•	
			LD50 (Monkey): > Application Route	
Not	n corrosion/irritation classified based on availa	ble	information.	
	nponents:			
	nzyl alcohol:		Dabbit	
	ecies hod	÷	Rabbit OECD Test Guide	eline 404
Res	sult	:	No skin irritation	
	ious eye damage/eye irri classified based on availa			
<u>Cor</u>	nponents:			
Ber	nzyl alcohol:			
Spe	ecies	:	Rabbit	
Res	sult hod	:	Irritation to eyes, I OECD Test Guide	reversing within 21 days
IVIEL		•		



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Resp	iratory or skin sensi	tizatio	n	
	sensitization assified based on ava	ailable	information.	
-	iratory sensitization assified based on ava		information.	
Comp	oonents:			
Test T	es of exposure es od	:	Maximization Tes Skin contact Guinea pig OECD Test Guid negative	
	cell mutagenicity assified based on ava	ailable	information.	
Comp	oonents:			
Sucro Genot	ose: toxicity in vitro	:	Test Type: In vitr Result: negative	o mammalian cell gene mutation test
Benzy	yl alcohol:			
Geno	toxicity in vitro	:	Test Type: Bacte Result: negative	rial reverse mutation assay (AMES)
Genot	toxicity in vivo	:	cytogenetic assa Species: Mouse	nalian erythrocyte micronucleus test (in vivo y) e: Intraperitoneal injection
Reco	mbinant Follicle Stir	nulatiı	ng Hormone:	
	toxicity in vitro	:	Test Type: Ames Result: negative	test
			Test Type: In vitr Test system: mai Result: negative	o mammalian cell gene mutation test mmalian cells
			Test Type: Chror Test system: Hur Result: negative	nosomal aberration nan lymphocytes
Genot	toxicity in vivo	:	Test Type: Micro Species: Mouse Result: negative	nucleus test



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	i <b>nogenicity</b> lassified based on availa	able	information.	
	ponents:			
	yl alcohol:			
Spec		:	Mouse Ingestion	
	sure time od	:	103 weeks OECD Test Gu negative	ideline 451
-	oductive toxicity damage fertility. May dai	nag	e the unborn chi	ld.
	ponents:	5		
Benz	yl alcohol:			
	ts on fertility	:	Species: Rat Application Ron Result: negativ	
Effect	ts on fetal development	:	Test Type: Em Species: Mous Application Rou Result: negativ	ute: Ingestion
Reco	mbinant Follicle Stimu	lati	ng Hormone:	
	ts on fertility	:	Test Type: Fer Species: Rat Application Roo Fertility: LOAE	ute: Subcutaneous _: 0,11 ect on estrous cycle, Increase of early resorp d fertility
			Fertility: LOAE	t ute: Subcutaneous _: 0,027 duced fertility, Reduced embryonic survival
Effect	ts on fetal development	:	Dose: 2.9 µg/kg	ute: Subcutaneous
Repro	oductive toxicity - As-	:	Clear evidence	of adverse effects on sexual function and



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adverse effects on development, based on animal experiments.

#### 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.

#### **Components:**

#### **Recombinant Follicle Stimulating Hormone:**

Target Organs Assessment male reproductive organs, female reproductive organs 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	:	Rat 0,028 mg/kg 0,28 mg/kg



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E	Application Route Exposure time Target Organs		:	Subcutaneous 1 year Testis		
L	Species LOAEL Exposure time Target Organs		:	Monkey, male 0,028 mg/kg 1 year Testis		
	Aspiration toxicity Not classified based on available information.					
	Experience with human exposure					
	Components:					
	Recombinant Follicle Stimulatin			<b>ng Hormone:</b> Symptoms: gynecomastia, Skin disorders, Headache, Nau- sea, Vomiting, Diarrhea		
SECT	SECTION 12. ECOLOGICAL INFORMATION					
E	Ecotoxicity					
<u>C</u>	Compo	nents:				
В	Benzyl	alcohol:				
Т	oxicity	to fish	:	LC50 (Pimephales 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 Te		
	oxicity lants	to algae/aquatic	:	EC50 (Pseudokiro mg/l Exposure time: 72 Method: OECD Te		
				NOEC (Pseudokir mg/l Exposure time: 72 Method: OECD Te		
а		to daphnia and other invertebrates (Chron- ty)	:	NOEC (Daphnia r Exposure time: 21 Method: OECD Te		
Р	Persist	ence and degradabili	ity			
<u>c</u>	Compo	onents:				

#### Benzyl alcohol:



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Bic	Biodegradability		Result: Readily biodegradable. Biodegradation: 92 - 96 % Exposure time: 14 d		
Bio	Bioaccumulative potential				
<u>Co</u>	Components:				
Pa	Sucrose: Partition coefficient: n- octanol/water		Pow: < 1		
Pa	Benzyl alcohol: Partition coefficient: n- octanol/water		: log Pow: 1,05		
	<b>bbility in soil</b> data available				
	<b>her adverse effects</b> data 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.

#### 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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Arger Regis	ntina. Carcinogenic Sub try.	ostances and Agents	: Not applicable			
	Control of precursors and essential chemicals for the : Not applicable preparation of drugs.					
	The ingredients of this product are reported in the following inventories: AICS : not determined					
DSL		: not determine	d			
IECS	С	: not determine	d			
SECTION	SECTION 16. OTHER INFORMATION					
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#### Further information

#### Full text of other abbreviations

ACGIH AR OEL	USA. ACGIH Threshold Limit Values (TLV) Argentina. Occupational Exposure Limits
ACGIH / TWA AR OEL / CMP	8-hour, time-weighted average TLV (Threshold 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 Develop-



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ment; 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; 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

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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