

Version 2.9	Revision Date: 23.07.2024		S Number: 42505-00011	Date of last issue: 25.03.2024 Date of first issue: 08.05.2020		
SECTION	1. IDENTIFICATION					
Prod	uct name	:	Altrenogest (0.22%) Formulation			
Othe	r means of identification	:	REGUMATE (A	004536)		
Manu	ufacturer or supplier's o	deta	ils			
Com	pany	:	MSD			
Addro	Address		Talcahuano 750, 6th floor, Ciudad Autonoma Buenos Aires, Argentina C1013AAP			
Telep	phone	:	908-740-4000			
Emer	Emergency telephone		1-908-423-6000			
E-ma	E-mail address		EHSDATASTEV	VARD@msd.com		
Reco	ommended use of the c	hem	ical and restricti	ons on use		
	ommended use rictions on use	:	Veterinary produ Not applicable	ict		
SECTION	2. HAZARDS IDENTIFI	САТ	ION			
GHS	Classification					

Long-term (chronic) aquatic hazard	:	Category 1	
GHS label elements Hazard pictograms	:	₩ <u></u>	
Signal Word	:	Warning	
Hazard Statements	:	H410 Very toxic to aquatic life with long lasting effects.	
Precautionary Statements	:	<b>Prevention:</b> P273 Avoid release to the environment.	
		<b>Response:</b> P391 Collect spillage.	
		<b>Disposal:</b> P501 Dispose of contents/ container to an approved waste disposal plant.	





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### Other hazards which do not result in classification

None known.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

#### Components

Chemical name	CAS-No.	Concentration (% w/w)
Benzyl alcohol	100-51-6	>= 1 -< 5
Altrenogest	850-52-2	>= 0,1 -< 0,25

### **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	:	
Most important symptoms and effects, both acute and delayed	:	None known.
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 Carbon dioxide (CO2) Dry chemical
Unsuitable extinguishing media	:	
Specific hazards during fire fighting	:	Exposure to combustion products may be a hazard to health.
Hazardous combustion prod- ucts	:	Carbon oxides
Specific extinguishing meth- ods	:	Use extinguishing measures that are appropriate to local cir- cumstances and the surrounding environment.



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	Special for fire-	protective equipment fighters	:	Remove undamag so. Evacuate area.	o cool unopened containers. ged containers from fire area if it is safe to do e, wear self-contained breathing apparatus. ective equipment.	
SEC	TION 6	ACCIDENTAL RELE	ASE	EMEASURES		
	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).		
	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		:	For large spills, pr containment to ke can be pumped, s container. Clean up remainin absorbent. Local or national r disposal of this ma employed in the c determine which r Sections 13 and 1	absorbent material. ovide diking or other appropriate ep material from spreading. If diked material tore recovered material in appropriate ng 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 egulations 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.
5		Do not breathe vapors or spray mist.
		Do not swallow.
		Avoid contact with eyes.
		Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure assessment
		Keep container tightly closed.
		Take care to prevent spills, waste and minimize release to the environment.
Conditions for safe storage	:	Keep in properly labeled containers. Keep tightly closed.



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Mate	rials to avoid	: Do not store wit Strong oxidizing	bstances and mixtures

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with	workplace	control	parameters
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Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis		
Altrenogest	850-52-2	TWA	1 µg/m3 (OEB 4)	Internal		
	Further inform			-		
		Wipe limit	10 µg/100 cm <sup>2</sup>	Internal		
Engineering measures	design and o protect prode Essentially n Use closed p If handled in cabinet, fum potential exis	All engineering controls should be implemented by facility design and operated in accordance with GMP principles to protect products, workers, and the environment. Essentially no open handling permitted. Use closed processing systems or containment technologies. If handled in a laboratory, use a properly designed biosafety cabinet, fume hood, or other containment device if the potential exists for aerosolization. If this potential does not exist, handle over lined trays or benchtops.				
Personal protective equip	nent					
Respiratory protection Filter type Hand protection	exposure as recommende	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				
Material	: Chemical-re	sistant gloves				
Remarks Eye protection	: Wear safety If the work e mists or aero Wear a face	<ul> <li>Consider double gloving.</li> <li>Wear safety glasses with side shields or goggles. If the work environment or activity involves dusty conditions, mists or aerosols, wear the appropriate goggles. Wear a faceshield or other full face protection if there is a potential for direct contact to the face with dusts, mists, or aerosols.</li> <li>Work uniform or laboratory coat. Additional body garments should be used based upon the task being performed (e.g., sleevelets, apron, gauntlets, disposable suits) to avoid exposed skin surfaces. Use appropriate degowning techniques to remove potentially contaminated clothing.</li> <li>If exposure to chemical is likely during typical use, provide eye flushing systems and safety showers close to the working place.</li> </ul>				
Skin and body protection Hygiene measures	<ul> <li>Work uniform Additional bot task being podisposable s Use approprise contaminate</li> <li>If exposure to eye flushing</li> </ul>					



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			Wash contaminate The effective oper engineering contro appropriate degov	ot eat, drink or smoke. ed clothing before re-use. ration of a facility should include review of ols, proper personal protective equipment, wning and decontamination procedures, monitoring, medical surveillance and the ive controls.
SECTION	19. PHYSICAL AND CHI	EMIC	CAL PROPERTIES	8
Арре	earance	:	liquid	
Colo	r	:	No data available	)
Odo	r	:	odorless	
Odo	r Threshold	:	No data available	9
pН		:	No data available	9
Melti	ing point/freezing point	:	No data available	9
Initia rang	l boiling point and boiling e	:	No data available	3
Flasl	h point	:	No data available	)
Evap	poration rate	:	No data available	)
Flam	nmability (solid, gas)	:	Not applicable	
Flam	nmability (liquids)	:	No data available	)
	er explosion limit / Upper mability limit	:	No data available	
	er explosion limit / Lower mability limit	:	No data available	
Vapo	or pressure	:	No data available	
Rela	tive vapor density	:	No data available	)
Rela	tive density	:	No data available	)
Dens	sity	:	No data available	)
	bility(ies) /ater solubility	:	No data available	9
	tion coefficient: n-	:	No data available	9
	nol/water ignition temperature	:	No data available	9
Deco	omposition temperature	:	No data available	



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	sity scosity, kinematic sive properties	:	No data availabl Not explosive	e
	zing properties cular weight	:	The substance on No data availabl	or mixture is not classified as oxidizing. e
	cle characteristics cle size	:	No data availabl	e

### 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:

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
Components:		
Benzyl alcohol:		
Acute oral toxicity	:	LD50 (Rat): 1.620 mg/kg
Acute inhalation toxicity	:	LC50 (Rat): > 4,178 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403



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Altrer	nogest:		
Acute oral toxicity		: LD50 (Rat):	177 mg/kg
		LD50 (Dog):	400 mg/kg
Skin	corrosion/irritation		
Not cl	assified based on av	ailable information.	
<u>Comp</u>	oonents:		
Benzy	yl alcohol:		
Speci		: Rabbit	
Metho Resul		: OECD Test : No skin irrita	Guideline 404 tion
	us eye damage/eye		
	assified based on av	ailable information.	
Comp	oonents:		
Benzy	yl alcohol:		
Speci		: Rabbit	use reversies within 21 days
Resul Metho			yes, reversing within 21 days Guideline 405
Resni	iratory or skin sens	tization	
-	sensitization		
-	assified based on av	ailable information.	
	iratory sensitization		
•	assified based on av		
Comp	oonents:		
	yl alcohol:		
Test 1		: Maximizatior	n Test
Route	s of exposure	: Skin contact	
Speci		: Guinea pig	
Metho Resul		: negative	Guideline 406
	cell mutagenicity assified based on av	ailable information	
	onents:	allable information.	
-	yl alcohol:	<b>-</b>	
$\sim$	toxicity in vitro		acterial reverse mutation assay (AMES)
Geno		Result: nega	live



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			cytogenetic assa Species: Mouse Application Route Result: negative	y) e: Intraperitoneal injection
Altren	ogest:			
	oxicity in vitro	:	Test Type: Bacte Result: negative	rial reverse mutation assay (AMES)
			Test Type: Chror Result: negative	nosome aberration test in vitro
				damage and repair, unscheduled DNA syn- lian cells (in vitro)
	<b>nogenicity</b> assified based on availa	ble	information.	
<u>Comp</u>	onents:			
Benzy	l alcohol:			
	es ation Route ure time	:	Mouse Ingestion 103 weeks	
Metho Result	d	:	OECD Test Guid negative	eline 451
		•	negative	
-	ductive toxicity	able	-	
Not cla		Ible	-	
Not cla <u>Comp</u>	ductive toxicity assified based on availa onents:	ıble	-	
Not cla <u>Comp</u> Benzy	ductive toxicity assified based on availa	Ible :	information. Test Type: Fertili Species: Rat Application Route Result: negative	ty/early embryonic development e: Ingestion on data from similar materials
Not cla <u>Comp</u> Benzy Effects	ductive toxicity assified based on availa onents: 1 alcohol:	uble :	information. Test Type: Fertili Species: Rat Application Route Result: negative Remarks: Based	e: Ingestion on data from similar materials yo-fetal development
Not cla <u>Comp</u> Benzy Effects Effects	ductive toxicity assified based on availa onents: I alcohol: s on fertility	:	information. Test Type: Fertili Species: Rat Application Route Result: negative Remarks: Based Test Type: Embry Species: Mouse Application Route	e: Ingestion on data from similar materials yo-fetal development
Not cla <u>Comp</u> Benzy Effects Effects Altren	ductive toxicity assified based on availa <u>onents:</u> I alcohol: s on fertility	:	information. Test Type: Fertili Species: Rat Application Route Result: negative Remarks: Based Test Type: Embry Species: Mouse Application Route Result: negative Test Type: Two-g Species: Rat Application Route Fertility: NOAEL:	e: Ingestion on data from similar materials yo-fetal development e: Ingestion generation reproduction toxicity study



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		Species: Mor Application R Fertility: NOA	
Repr	oductive toxicity - As- ment		ce of adverse effects on sexual function and r on development, based on animal experiments
	T-single exposure classified based on avai	able information.	
	T-repeated exposure classified based on avai	able information.	
Com	ponents:		
Altre	nogest:		
Targ	es of exposure et Organs ssment		em, Adrenal gland amage to organs through prolonged or repeated
	es of exposure et Organs	: Oral : Pituitary glane	d
Repe	eated dose toxicity		
<u>Com</u>	ponents:		
Benz	yl alcohol:		
	EL cation Route sure time	: Rat : 1,072 mg/l : inhalation (du : 28 Days : OECD Test G	,
Altre	nogest:		
Spec NOA Appli Expo	cies EL cation Route osure time et Organs	<ul> <li>Rat</li> <li>0,06 mg/kg</li> <li>Oral</li> <li>13 Weeks</li> <li>Immune systentive organs, A</li> <li>Effects on ferentiation</li> </ul>	
Expo Targo Rem Spec NOA	EL ication Route issure time et Organs arks cies EL	: Effects on fer : Pig : 0,002 mg/kg	ctive organs, female reproductive organs tility.
Appli	cation Route	: Oral	



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Tar	oosure time get Organs narks	:	1 y male reproductive Effects on fertility	e organs, Pituitary gland
LÖA App Exp	Species LOAEL Application Route Exposure time Remarks		Horse 220 mg/kg Oral 86 Days No significant adv	verse effects were reported
-	<b>biration toxicity</b> classified based on availa	able	information.	
Exp	perience with human exp	osi	ire	
<u>Cor</u>	nponents:			
Inha Skir	renogest: alation n contact e contact	:	Symptoms: respir Symptoms: Skin i Symptoms: Eye ir	
SECTIO	N 12. ECOLOGICAL INFO	ORI	IATION	
Eco	otoxicity			
<u>Cor</u>	nponents:			
Ber	nzyl alcohol:			
	icity to fish	:	LC50 (Pimephale Exposure time: 96	s promelas (fathead minnow)): 460 mg/l 5 h
	icity to daphnia and other atic invertebrates	:	Exposure time: 48	nagna (Water flea)): 230 mg/l 3 h est Guideline 202
Tox plar	icity to algae/aquatic nts	:	EC50 (Pseudokiro mg/l Exposure time: 72 Method: OECD T	
			NOEC (Pseudoki mg/l Exposure time: 72 Method: OECD T	
aqu	icity to daphnia and other atic invertebrates (Chron- oxicity)		NOEC (Daphnia r Exposure time: 2 <sup>-</sup> Method: OECD T	
Altr	enogest:			
	icity to fish (Chronic tox-	:	NOEC (Danio rer Exposure time: 32 Method: OECD T	



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M-Fa toxici	ctor (Chronic aquatic ty)	:	100.000	
Persi	stence and degradabi	lity		
<u>Com</u>	ponents:			
	yl alcohol: gradability	:	Result: Readily b Biodegradation: Exposure time: 1	92 - 96 %
Bioa	ccumulative potential			
Com	ponents:			
Partit	<b>yl alcohol:</b> ion coefficient: n- ol/water	:	log Pow: 1,05	
Partit	<b>nogest:</b> ion coefficient: n- ol/water	:	log Pow: 3,78	
Mobi	lity in soil			
Com	ponents:			
Distri	nogest: bution among environ- al compartments	:	log Koc: 3,3	
	r adverse effects ata available			

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

<b>UNRTDG</b> UN number Proper shipping name	:	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (altrenogest)
Class	:	9
Packing group	:	III



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	bels vironmentally hazardous	: 9 : yes	
UN	<b>TA-DGR</b> I/ID No. oper shipping name	<ul> <li>: UN 3082</li> <li>: Environmentally hazardous substance, liquid, n.o.s. (Altrenogest)</li> </ul>	
Pa	ass cking group bels	: 9 : III : Miscellaneous	
air	cking instruction (cargo craft) cking instruction (passen-	: 964 : 964	
ge En	r aircraft) vironmentally hazardous	: yes	
UN	<b>DG-Code</b> I number oper shipping name	<ul> <li>: UN 3082</li> <li>: ENVIRONMENTALLY HAZARDOUS SUBSTANCE N.O.S. (Altrenogest)</li> </ul>	, LIQUID,
Pa La En	ass cking group bels nS Code arine pollutant	<ul> <li>9</li> <li>9</li> <li>10</li> <li>9</li> <li>9</li> <li>F-A, S-F</li> <li>yes</li> </ul>	

### 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

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

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

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

 Argentina. Carcinogenic Substances and Agents
 : Not applicable

 Registry.

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 determined
IECSC	:	not determined

### **SECTION 16. OTHER INFORMATION**



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Furt	her information			
com	rces of key data used to pile the Material Safety a 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

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; 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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