



Version 2.10	Revision Date: 23.07.2024		S Number: 12504-00012	Date of last issue: 25.03.2024 Date of first issue: 08.05.2020		
SECTIO	N 1: IDENTIFICATION					
	duct name	:	Altrenogest (0.22	%) Formulation		
Other means of identification		:	REGUMATE (A0	REGUMATE (A004536)		
Mar	nufacturer or supplier's o	detai	ils			
Con	npany	:	Intervet Australia	Pty Limited (trading as MSD Animal Health)		
Address		:	91-105 Harpin Street Bendigo 3550, Victoria Austrailia			
Tele	ephone	:	1 800 033 461			
Eme	ergency telephone numbe	r :	Poisons Informat	ion Centre: Phone 13 11 26		
E-m	ail address	:	EHSDATASTEW	/ARD@msd.com		
Rec	commended use of the cl	hem	ical and restriction	ons on use		
Rec	commended use	:	Veterinary produ	ct		

Restrictions on use : Not applicable

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Not a hazardous substance or mixture.

GHS label elements

No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required

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	< 10
altrenogest	850-52-2	< 0.3

SECTION 4. FIRST AID MEASURES

General advice

In the case of accident or if you feel unwell, seek medical advice immediately.



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				persist or in all cases of doubt seek medical		
lf ir	haled	:	advice. If inhaled, remove Get medical atter			
In c	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.			
In c	case of eye contact	:	Flush eyes with w	shoes before reuse. /ater as a precaution.		
lf s	If swallowed		Get medical attention if irritation develops and persists. If swallowed, DO NOT induce vomiting. Get medical attention. Rinse mouth thoroughly with water.			
and	Most important symptoms and effects, both acute and		None known.	oughly with water.		
	delayed 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).			
No	tes to physician	:		cally and supportively.		
SECTIC	ON 5. FIREFIGHTING MEA	SU	RES			
Sui	itable extinguishing media	:	Water spray Alcohol-resistant Carbon dioxide (0 Dry chemical			
Un: me	suitable extinguishing dia	:	None known.			
Spe	ecific hazards during fire-	:	Exposure to com	bustion products may be a hazard to health.		
	zardous combustion prod-	:	Carbon oxides			
Spe	ecific extinguishing meth-	:		measures that are appropriate to local cir-		

•	cumstances and the surrounding environment.
	Use water spray to cool unopened containers.
	Remove undamaged containers from fire area if it is safe to do
	S0.
	Evacuate area.
:	In the event of fire, wear self-contained breathing apparatus.
	Use personal protective equipment.
:	•3Z
	:

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 pro- tective equipment recommendations (see section 8).
Environmental precautions :	Avoid release to the environment.





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		Prevent spreadi barriers). Retain and disp	eakage or spillage if safe to do so. ng over a wide area (e.g. by containment or oil ose of contaminated wash water. s should be advised if significant spillages ined.
Methods and materials for containment and cleaning up		For large spills, ment to keep ma be pumped, stor Clean up remain bent. Local or nationa posal of this ma employed in the mine which regu Sections 13 and	ert absorbent material. provide dyking or other appropriate contain- aterial from spreading. If dyked material can re recovered material in appropriate container. hing materials from spill with suitable absor- I regulations may apply to releases and dis- terial, as well as those materials and items cleanup of releases. You will need to deter- ulations are applicable. I 15 of this SDS provide information regarding hational 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. Do not breathe vapours 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 as- sessment Keep container tightly closed. Take care to prevent spills, waste and minimize release to the environment.
Hygiene measures	:	If exposure to chemical is likely during typical use, provide eye flushing systems and safety showers close to the working place. When using do not eat, drink or smoke. Wash contaminated clothing before re-use. The effective operation of a facility should include review of engineering controls, proper personal protective equipment, appropriate degowning and decontamination procedures, industrial hygiene monitoring, medical surveillance and the use of administrative controls.
Conditions for safe storage	:	Keep in properly labelled containers. 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



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SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components altrenogest	CAS-No. 850-52-2	Value type (Form of exposure) TWA	Control parame- ters / Permissible concentration 1 µg/m3 (OEB 4)	Basis Internal
	Further inform		40 //02 2	
		Wipe limit	10 µg/100 cm ²	Internal
Engineering measures	All engineerin design and op protect produ Essentially no Use closed pu If handled in a cabinet, fume tial exists for a handle over li	ciples to chnologies. biosafety the poten-		
Personal protective equipmer	nt			
Respiratory protection : Filter type : Hand protection	 If adequate local exhaust ventilation is not available or exposure assessment demonstrates exposures outside the recommended guidelines, use respiratory protection. Combined particulates and organic vapour type 			
Material	Chemical-res	istant gloves		
Remarks : Eye protection :	Consider double gloving. 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. Work uniform or laboratory coat. Additional body garments should be used based upon the task being performed (e.g., sleevelets, apron, gauntlets, dis- posable suits) to avoid exposed skin surfaces. Use appropriate degowning techniques to remove potentially contaminated clothing.			ere is a hists, or bon the htlets, dis-

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	liquid
Colour	:	No data available



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Odo	bur	:	odourless	
Odo	our Threshold	:	No data available	9
pН		:	No data available	9
Mel	ting point/freezing point	:	No data available	9
Initia rang	al boiling point and boiling ge	:	No data available	9
Flas	sh point	:	No data available	9
Eva	poration rate	:	No data available	9
Flar	nmability (solid, gas)	:	Not applicable	
Flar	nmability (liquids)	:	No data available	9
	per explosion limit / Upper nmability limit	:	No data available	9
	ver explosion limit / Lower nmability limit	:	No data available	9
Vap	our pressure	:	No data available	9
Rela	ative vapour density	:	No data available	9
Rela	ative density	:	No data available	9
Den	nsity	:	No data available	9
	ubility(ies) Water solubility	:	No data available	9
	tition coefficient: n- anol/water	:	No data available	9
	o-ignition temperature	:	No data available	9
Dec	composition temperature	:	No data available	9
	cosity /iscosity, kinematic	:	No data available	
Exp	losive properties	:	Not explosive	
Oxio	dizing properties	:	The substance o	r mixture is not classified as oxidizing.
Mol	ecular weight	:	No data available	9



ersion 10	Revision Date: 23.07.2024		9S Number: 42504-00012	Date of last issue: 25.03.2024 Date of first issue: 08.05.2020				
Particl Particl	e characteristics e size	:	No data availa	ble				
	IO. STABILITY AND R	EAC	TIVITY					
Reactivity Chemical stability Possibility of hazardous reac- tions Conditions to avoid Incompatible materials Hazardous decomposition products			 Not classified as a reactivity hazard. Stable under normal conditions. Can react with strong oxidizing agents. None known. Oxidizing agents No hazardous decomposition products are known. 					
	11. TOXICOLOGICAL	INFO	ORMATION					
Exposure routes		:	: Inhalation Skin contact Ingestion Eye contact					
	toxicity assified based on availa	able						
<u>Produ</u>	<u>ct:</u>							
Acute	oral toxicity	:	Acute toxicity e Method: Calcul	estimate: > 2,000 mg/kg ation method				
Acute	inhalation toxicity	:	Acute toxicity e Exposure time: Test atmosphe Method: Calcul	re: dust/mist				
<u>Comp</u>	onents:							
Benzy	l alcohol:							
Acute	oral toxicity	:	LD50 (Rat): 1,6	620 mg/kg				
Acute	inhalation toxicity	:	LC50 (Rat): > 4 Exposure time: Test atmosphe Method: OECD	4 h				
altren	ogest:							
Aquita	oral taxiaity	:	LD50 (Rat): 17	7 ma/ka				
Acute	oral toxicity	·		/ IIIg/kg				



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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 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 406
Result	:	negative

Chronic toxicity

Germ cell mutagenicity

Not classified based on available information.

Components:

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: negative	
			Result. negative	
altrei	nogest:			
Geno	otoxicity in vitro	:	Test Type: Bacte Result: negative	erial reverse mutation assay (AMES)
			Test Type: Chror Result: negative	mosome aberration test in vitro
				damage and repair, unscheduled DNA syn- Ilian cells (in vitro)
	inogenicity lassified based on avai	lable	information.	
Com	ponents:			
Benz	yl alcohol:			
Spec		:	Mouse	
	cation Route sure time	:	Ingestion 103 weeks	
Meth		÷	OECD Test Guid	leline 451
Resu	lt	:	negative	
Repr	oductive toxicity			
-	lassified based on avai	lable	information.	
Com	ponents:			
Benz	yl alcohol:			
	ts on fertility	:		ty/early embryonic development
			Species: Rat Application Route	a: Indestion
			Result: negative	e. ingestion
			Remarks: Based	on data from similar materials
Effec	ts on foetal develop-	:		yo-foetal development
ment			Species: Mouse Application Route	
			Result: negative	e. ingestion
	nogest:		Toot Turner Trut	reportion reproduction toxicity study
Ellec	ts on fertility	•	Species: Rat	generation reproduction toxicity study
			Application Route	
				0.016 mg/kg body weight n fertility, No effects on mating performance
				ty/early embryonic development



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		Species: Monke	ev. female
		Application Rou	
Repro sessn	oductive toxicity - As- nent		of adverse effects on sexual function and ferevelopment, based on animal experiments
	- single exposure lassified based on avai	lable information.	
	- repeated exposure lassified based on avai		
	oonents:		
	nogest:		
	sure routes	: Oral	
-	et Organs ssment	: Immune system	, Adrenal gland age to organs through prolonged or repeate
A556:	ssment	exposure.	age to organs through protonged of repeate
	sure routes	: Oral	
Targe	et Organs	: Pituitary gland	
-	ated dose toxicity		
	oonents:		
	yl alcohol:	5.4	
Speci NOAE		: Rat : 1.072 mg/l	
	cation Route	: inhalation (dust/	/mist/fume)
Expos	sure time	: 28 Days	
Metho	bd	: OECD Test Gui	deline 412
	nogest:		
Speci		: Rat	
NOAE Applie	=∟ cation Route	: 0.06 mg/kg : Oral	
	sure time	: 13 Weeks	
Targe	et Organs	: Immune system tive organs, Adr	, male reproductive organs, female reproduce enal gland
Rema	arks	: Effects on fertili	
Speci		: Pig	
NOAE Applie	=L cation Route	: 0.004 mg/kg : Oral	
	sure time	: 13 Weeks	
	et Organs		ve organs, female reproductive organs
Rema		: Effects on fertili	



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NC Apj Exj Tai Re Spo LO Apj Exj	ecies DAEL plication Route posure time rget Organs marks ecies AEL plication Route posure time marks		Effects on fertility Horse 220 mg/kg Oral 86 Days	e organs, Pituitary gland verse effects were reported
	piration toxicity t classified based on availa	able	information	
	perience with human exp			
	mponents:			
	renogest:			
Inh Ski	alation n contact e contact	:	Symptoms: respir Symptoms: Skin i Symptoms: Eye i	
SECTIC	N 12. ECOLOGICAL INFO	ORI	IATION	
Fo	otoxicity			
	-			
	mponents:			
	nzyl alcohol: xicity to fish	:	LC50 (Pimephale Exposure time: 90	es promelas (fathead minnow)): 460 mg/l 6 h
	xicity to daphnia and other uatic invertebrates	:	Exposure time: 48	nagna (Water flea)): 230 mg/l 8 h rest Guideline 202
	xicity to algae/aquatic nts	:	mg/l Exposure time: 72	chneriella subcapitata (green algae)): 770 2 h rest Guideline 201
			mg/l Exposure time: 72	rchneriella subcapitata (green algae)): 310 2 h est Guideline 201
aqu	xicity to daphnia and other uatic invertebrates (Chron- oxicity)		Exposure time: 2	magna (Water flea)): 51 mg/l 1 d est Guideline 211



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	nogest: ity to fish (Chronic tox-	:	Exposure time: 3	erio (zebra fish)): 0.0004 μg/l 32 d Test Guideline 210
Persi	stence and degradabil	ity		
Com	ponents:			
	yl alcohol: egradability	:	Result: Readily Biodegradation: Exposure time:	92 - 96 %
Bioa	ccumulative potential			
Com	ponents:			
Partit	yl alcohol: ion coefficient: n- ol/water	:	log Pow: 1.05	
Partit	nogest: ion coefficient: n- iol/water	:	log Pow: 3.78	
Mobi	lity in soil			
Com	ponents:			
Distri	nogest: bution among environ- al compartments	:	log Koc: 3.3	
Othe	r adverse effects ata available			

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 han- dling site for recycling or disposal. If not otherwise specified: Dispose of as unused product.

SECTION 14. TRANSPORT INFORMATION

International Regulations



Version 2.10	Revision Date: 23.07.2024		OS Number: 42504-00012	Date of last issue: 25.03.2024 Date of first issue: 08.05.2020
	RTDG			
	number	:	UN 3082	
Pro	per shipping name	:	ENVIRONMENT/ N.O.S. (altrenogest)	ALLY HAZARDOUS SUBSTANCE, LIQUID,
Clas	SS	:	9	
	king group	:	III	
Lab		:	9	
Env	ironmentally hazardous	÷	yes	
	A-DGR			
	ID No.	:	UN 3082	and the second second second second
	per shipping name	:	(altrenogest)	nazardous substance, liquid, n.o.s.
Clas		÷	9 III	
Lab	king group	÷	Miscellaneous	
Pac	king instruction (cargo	:	964	
Pac ger	king instruction (passen- aircraft)	:	964	
Ēnv	ironmentally hazardous	:	yes	
IMD	G-Code			
	number	:	UN 3082	
Pro	per shipping name	:	ENVIRONMENTA N.O.S. (altrenogest)	ALLY HAZARDOUS SUBSTANCE, LIQUID,
Clas	SS	:	9	
Pac	king group	:	iii	
Lab		:	9	
	S Code	÷	F-A, S-F	
	ine pollutant	•	yes	
	nsport in bulk according applicable for product as	-		OL 73/78 and the IBC Code
	ional Regulations	· r		
inal	ional regulations			

:	UN 3082
:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
	N.O.S.
	(altrenogest)
:	9
:	
:	9
:	•3Z
:	yes
	· · · · · · · · · · · · · · · · · · ·

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





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Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

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SECTION 15. REGULATORY INFORMATION

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	Safety, health and environme ture	ent	tal regulations/legislatior	n specific for the substance or mix-		
	Therapeutic Goods (Poisons Standard) Instrument	:	•	ber allocated (Please use the original pecific uses, specific conditions or t apply for this chemical)		
	Prohibition/Licensing Requirem	ier	nts :	There is no applicable prohibition, authorisation and restricted use requirements, including for carcino- gens referred to in Schedule 10 of the model WHS Act and Regula- tions.		
The components of this product are reported in the following inventories:						
	AICS	:	not determined			
	DSL	:	not determined			

SECTION 16: ANY OTHER RELEVANT INFORMATION

:

not determined

Further information

IECSC

Revision Date Sources of key data used to compile the Safety Data Sheet	:	23.07.2024 Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agen- cy, http://echa.europa.eu/
Date format	:	dd.mm.yyyy

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 Or-

SAFETY DATA SHEET



Altrenogest (0.22%) Formulation

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ganisation 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.

AU / EN