

Proligestone Formulation

Versic 2.10	n Revision Date: 30.11.2023		S Number: 8524-00012	Date of last issue: 30.09.2023 Date of first issue: 07.08.2018				
1. PR	1. PRODUCT AND COMPANY IDENTIFICATION							
P	roduct name	:	Proligestone For	mulation				
C	Other means of identification	:	Delvosteron (A00	04103)				
	lanufacturer or supplier's d	letai						
Ĺ	company	:	MSD					
A	ddress	:	50 Tuas West Dr Singapore - Sing					
Т	elephone	:	+1-908-740-4000)				
E	mergency telephone number	· :	65 6697 2111 (24	4/7/365)				
E	-mail address	:	EHSDATASTEW	/ARD@msd.com				
R	ecommended use of the ch	nem	ical and restriction	ons on use				
	ecommended use estrictions on use	:	Pharmaceutical Not applicable					

2. HAZARDS IDENTIFICATION

GHS Classification Carcinogenicity	:	Category 2
Reproductive toxicity	:	Category 1B
GHS label elements Hazard pictograms	:	
Signal word	:	Danger
Hazard statements	:	H351 Suspected of causing cancer. H360D May damage the unborn child.
Precautionary statements	:	Prevention: P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P280 Wear protective gloves/ protective clothing/ eye protec- tion/ face protection.





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Response:

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

Storage:

P405 Store locked up.

Disposal:

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

Other hazards which do not result in classification

None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture	:	Mixture
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Components

Chemical name	CAS-No.	Concentration (% w/w)
Proligestone	23873-85-0	>= 1 -< 10

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.
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	:	Suspected of causing cancer. May damage the unborn child.
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.

5. FIREFIGHTING MEASURES



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Suital	ole extinguishing media	: Water spray Alcohol-resis Carbon diox Dry chemica	de (CO2)			
Unsu media	itable extinguishing	: None known				
Speci fightir	fic hazards during fire- ng	: Exposure to	combustion products may be a hazard to health.			
Haza ucts	rdous combustion prod-	: Carbon oxide Metal oxides				
Specific extinguishing meth- ods		cumstances Use water sp				
	al protective equipment efighters	: In the event	In the event of fire, wear self-contained breathing apparatus Use personal protective equipment.			
6. ACCIDI	ENTAL RELEASE MEAS	SURES				
tive e	nal precautions, protec- quipment and emer- / procedures	Follow safe I	I protective equipment. nandling advice (see section 7) and personal pro- ment recommendations (see section 8).			
Envir	onmental precautions	Prevent furth Prevent spre barriers). Retain and c	e to the environment. Her leakage or spillage if safe to do so. Hading over a wide area (e.g. by containment or oil Hispose of contaminated wash water. Hities should be advised if significant spillages Hontained.			
	ods and materials for inment and cleaning up	For large spi ment to keep be pumped, Clean up rer bent. Local or nati posal of this employed in mine which r Sections 13	a inert absorbent material. Ils, provide dyking or other appropriate contain- o material from spreading. If dyked material can store recovered material in appropriate container. naining materials from spill with suitable absor- onal regulations may apply to releases and dis- material, as well as those materials and items the cleanup of releases. You will need to deter- egulations are applicable. and 15 of this SDS provide information regarding or national requirements.			

Technical measures	See Engineering measures under EXPOSURE
Local/Total ventilation	CONTROLS/PERSONAL PROTECTION section. If sufficient ventilation is unavailable, use with local exhaust



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Advi	ce on safe handling	Do not breath Do not swallo Avoid contac Handle in acc practice, base sessment Keep contain	
Con	ditions for safe storage	: Keep in prop Store locked Keep tightly c	losed.
Mate	erials to avoid		rdance with the particular national regulations. with the following product types: ng agents

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters					
Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis	
Proligestone	23873-85	-0 TWA	5 ug/m3 (OEB 4)	Internal	
		Wipe limit	50 ug/100cm2	Internal	
design protect Esser Use c If han cabine tial ex		Il engineering controls should be implemented by facility esign and operated in accordance with GMP principles to rotect products, workers, and the environment. issentially no open handling permitted. Ise closed processing systems or containment technologies. handled in a laboratory, use a properly designed biosafety abinet, fume hood, or other containment device if the poten- al exists for aerosolization. If this potential does not exist, andle over lined trays or benchtops.			
Respiratory protection : If adequate sure asses		essment demonstra ed guidelines, use r	ntilation is not availabl tes exposures outside espiratory protection.		
Material	: Chemica	Chemical-resistant gloves			
Remarks Eye protection	: Wear sa If the wo	 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. 			

Components with workplace control parameters



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			eld or other full face protection if there is a ect contact to the face with dusts, mists, or	
Skin a	and body protection	 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 potential contaminated clothing. 		
Hygie	ene measures	: If exposure to c eye flushing sys ing place. When using do Wash contamin The effective op engineering cor appropriate deg	hemical is likely during typical use, provide stems and safety showers close to the work- not eat, drink or smoke. hated clothing before re-use. beration of a facility should include review of ntrols, proper personal protective equipment, gowning and decontamination procedures, ne monitoring, medical surveillance and the	

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	Aqueous solution
Colour	:	white to off-white
Odour	:	No data available
Odour 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
Vapour pressure	:	No data available



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Relativ	e vapour density	:	No data available	9
Relativ	e density	:	No data available	9
Density	ý	:	1.035 g/cm ³	
Solubil Wat	ity(ies) ter solubility	:	soluble	
Solu	ubility in other solvents	:	No data available	9
	n coefficient: n-	:	Not applicable	
octano Auto-ig	inition temperature	:	No data available	9
Decom	position temperature	:	No data available	9
Viscosi Visc	ity cosity, kinematic	:	No data available	9
Explos	ive properties	:	Not explosive	
Oxidizi	ng properties	:	The substance o	r mixture is not classified as oxidizing.
Particle	e size	:	Not applicable	

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.

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: > 2,000 mg/kg Method: Calculation method



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<u>Co</u>	mponents:			
	ligestone: ite oral toxicity	:	LD50 (Mouse): 1,	000 mg/kg
-	n corrosion/irritation	able	information.	
	ious eye damage/eye irri classified based on availa			
Re	spiratory or skin sensitis	atio	'n	
	n sensitisation classified based on availa	able	information.	
	spiratory sensitisation classified based on availa	able	information.	
	r m cell mutagenicity classified based on availa	able	information.	
	cinogenicity spected of causing cancer.	1		
<u>Co</u>	mponents:			
	ligestone: rcinogenicity - Assess- nt	:	Limited evidence	of carcinogenicity in animal studies
•	productive toxicity y damage the unborn child	I.		
<u>Co</u>	mponents:			
	ligestone: acts on fertility	:	Test Type: Fertilit Species: Rat Application Route Fertility: NOAEL: Result: No effects	: Subcutaneous 10 mg/kg body weight
			Test Type: Fertilit Species: Rabbit Application Route Fertility: LOAEL: 7 Result: Postimpla	: Subcutaneous 10 mg/kg body weight
	productive toxicity - As- sment	:	May damage the ty.	unborn child. Suspected of damaging fertili-



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STOT - single exposure

Not classified based on available information.

STOT - repeated exposure

Not classified based on available information.

Components:

Proligestone:

Target Organs	:	Adrenal gland, Ovary, Uterus (including cervix)
Assessment	:	May cause damage to organs through prolonged or repeated
		exposure.

Repeated dose toxicity

Components:

Proligestone:

Species : LOAEL : Application Route : Exposure time : Target Organs :	Dog 25 mg/kg Subcutaneous 90 d Adrenal gland, Uterus (including cervix), Ovary	
Species : LOAEL : Application Route : Exposure time : Target Organs :	Rat 50 mg/kg Subcutaneous 90 d Adrenal gland, Uterus (including cervix), Ovary	

Aspiration toxicity

Not classified based on available information.

Experience with human exposure

Components:

Proligestone:

General Information	: Remarks: May cause cancer based on anima	al data.	
Inhalation	: Symptoms: Jaundice, Headache, Dizziness,	dice, Headache, Dizziness, menstrual irregu-	
	larities, changes in libido, bleeding, breast ch	anges	

12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

Proligestone:

Toxicity to fish

: LC50 (Pimephales promelas (fathead minnow)): > 0.5 mg/l Exposure time: 96 h Method: OECD Test Guideline 203



ersion 10	Revision Date: 30.11.2023		8 Number: 8524-00012	Date of last issue: 30.09.2023 Date of first issue: 07.08.2018
	ity to daphnia and other ic invertebrates	:	EC50 (Daphnia r Exposure time: 4 Method: OECD 1	icity at the limit of solubility nagna (Water flea)): > 0.5 mg/l 8 h ⁻ est Guideline 202 icity at the limit of solubility
Toxicity to algae/aquatic plants		:	EC50 (Pseudokiı mg/l Exposure time: 7 Method: OECD 1	chneriella subcapitata (green algae)): > 1
			Exposure time: 7 Method: OECD 1	irchneriella subcapitata (green algae)): 1 mg/l 2 h Fest Guideline 201 icity at the limit of solubility
Toxici	ity to microorganisms			ĥ
				h
Persi	stence and degradabi	lity		
<u>Comp</u>	oonents:			
-	gestone: gradability		Biodegradation: Exposure time: 2	
	cumulative potential			
Mobil	l ity in soil ata available			
Other	r adverse effects ata available			



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

14. TRANSPORT INFORMATION

International Regulations

UNRTDG

UN number	:	Not applicable
Proper shipping name	:	Not applicable
Class	:	Not applicable
Subsidiary risk	:	Not applicable
Packing group	:	Not applicable
Labels	:	Not applicable
IATA-DGR		
UN/ID No.	:	Not applicable
Proper shipping name	:	Not applicable
Class	:	Not applicable
Subsidiary risk	:	Not applicable
Packing group	:	Not applicable
Labels	:	Not applicable
Packing instruction (cargo aircraft)	:	Not applicable
Packing instruction (passen- ger aircraft)	:	Not applicable
IMDG-Code		
UN number	:	Not applicable

UN number	: Not applicable
Proper shipping name	: Not applicable
Class	: Not applicable
Subsidiary risk	: Not applicable
Packing group	: Not applicable
Labels	: Not applicable
EmS Code	: Not applicable
Marine pollutant	: Not applicable

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



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15. REGULATORY INFORMATION

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

Workplace Safety and Health Act and Workplace Safety and Health (General Provisions) Regulations: This product is subjected to the SDS, labelling, PEL and other requirements in the Act/Regulations.

Environmental Protection and Management Act and Environmental Protection and Management (Hazard- ous Substances) Regulations	•	Not applicable
Fire Safety (Petroleum and Flammable Materials) Regulations	:	Not applicable

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

AICS	:	not determined
DSL	:	not determined
IECSC	:	not determined

16. OTHER INFORMATION

Revision Date	:	30.11.2023
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	:	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-



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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.

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