

# **Oxytocin Formulation**

Vers 1.12		Revision Date: 28.09.2024		S Number: 7233-00013	Date of last issue: 06.04.2024 Date of first issue: 26.09.2018
SEC	<b>TION 1</b> Product	<b>IDENTIFICATION</b>	:	Oxytocin Formula	ation
	Manufa	cturer or supplier's d	etai	ls	
	Compa	ny	:	Intervet Australia	Pty Limited (trading as MSD Animal Health)
	Addres	5	:	91-105 Harpin St Bendigo 3550, V	
	Telepho	one	:	1 800 033 461	
	Emerge	ency telephone number	:	Poisons Informati	ion Centre: Phone 13 11 26
	E-mail a	address	:	EHSDATASTEW	ARD@msd.com
	Recom	mended use of the ch	emi	cal and restrictio	ons on use
		mended use ions on use	:	Veterinary produc Not applicable	ct

# **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)
Oxytocin, monoacetate (salt)	6233-83-6	< 0.3

### **SECTION 4. FIRST AID MEASURES**

If inhaled	:	If inhaled, remove to fresh air. Get medical attention if symptoms occur.
In case of skin contact	:	Wash with water and soap as a precaution.
In case of eye contact	:	Get medical attention if symptoms occur. Flush eyes with water as a precaution.



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	and eff delaye Protect	nportant symptoms ects, both acute and	:	If swallowed, DO Get medical atten Rinse mouth thor None known.	tion if irritation develops and persists. NOT induce vomiting. tion if symptoms occur. bughly with water. Itions are necessary for first aid responders. cally and supportively.
SEC	TION 5	. FIREFIGHTING MEA	SU	RES	
	Suitabl	e extinguishing media	:	Water spray Alcohol-resistant Carbon dioxide (C Dry chemical	
	Unsuita media	able extinguishing	:	None known.	
	Specifi fighting	c hazards during fire- I	:	Exposure to comb	pustion products may be a hazard to health.
	Hazaro ucts	lous combustion prod-	:	No hazardous cor	nbustion products are known
	Specifi ods	c extinguishing meth-	:	cumstances and t Use water spray t	measures that are appropriate to local cir- he surrounding environment. o cool unopened containers. ged containers from fire area if it is safe to do
	Specia for firef	l protective equipment ighters	:	essary.	ed breathing apparatus for firefighting if nec-

### SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- tive equipment and emer- gency procedures	•	Follow safe handling advice (see section 7) and personal pro- tective 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.



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	thods and materials for ntainment and cleaning up	For large spills, ment to keep ma be pumped, stor Clean up remain bent. Local or nationa posal of this mat 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- l 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 hational requirements.	
SECTIO				

### SECTION 7. HANDLING AND STORAGE

Technical measures Local/Total ventilation Advice on safe handling		See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section. Use only with adequate ventilation. Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure as- sessment 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. Store in accordance with the particular national regulations.
Materials to avoid	:	Do not store with the following product types: Strong oxidizing agents

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

• • • • • • • • • • • • • • • • • • •	P			
Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Oxytocin, monoacetate (salt)	6233-83-6	STEL	50 ng/m3 (OEB 5)	Internal
		Wipe limit	500 ng/100 cm <sup>2</sup>	Internal

# Components with workplace control parameters

#### Engineering measures

: Use closed processing systems or containment technologies to control at source (e.g., glove boxes/isolators) and to pre-



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		All engineer design and o protect prod No open han Totally enclo are required Operations r	e of compounds into the workplace. ing controls should be implemented by facility operated in accordance with GMP principles to ucts, workers, and the environment. ndling permitted. osed processes and materials transport systems. require the use of appropriate containment tech gned to prevent leakage of compounds into the
Perso	onal protective equip	ment	
Respi	iratory protection	: No personal quired.	respiratory protective equipment normally re-
Hand	protection	·	
Ma	aterial	: Chemical-re	sistant gloves
	emarks protection	: Wear safety If the work e mists or aero Wear a face	uble gloving. glasses with side shields or goggles. nvironment or activity involves dusty conditions osols, wear the appropriate goggles. shield or other full face protection if there is a direct contact to the face with dusts, mists, or
Skin a	and body protection	: Work uniforr Additional be task being p posable suit	n or laboratory coat. ody garments should be used based upon the erformed (e.g., sleevelets, apron, gauntlets, dis s) to avoid exposed skin surfaces. riate degowning techniques to remove potential d clothing.

# SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	liquid
Colour	:	No data available
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



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Flam	mability (solid, gas)	:	Not applicable	
Flam	mability (liquids)	:	No data available	9
	er explosion limit / Upper nability limit	:	No data available	e
	er explosion limit / Lower nability limit	:	No data available	9
Vapo	our pressure	:	No data available	e
Relat	tive vapour density	:	No data available	e
Relat	tive density	:	No data available	e
Dens	sity	:	No data available	e
	bility(ies) /ater solubility	:	No data available	e
	tion coefficient: n-	:	Not applicable	
	nol/water -ignition temperature	:	No data available	e
Deco	mposition temperature	:	No data available	e
Visco Vi	osity iscosity, kinematic	:	No data available	e
Explo	osive properties	:	Not explosive	
Oxidi	zing properties	:	The substance o	r mixture is not classified as oxidizing.
Mole	cular weight	:	No data available	9
	cle characteristics cle size	:	Not applicable	

# SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	Not classified as a reactivity hazard.
Chemical stability	:	Stable under normal conditions.
Possibility of hazardous reac-	:	Can react with strong oxidizing agents.
tions		
Conditions to avoid	:	None known.
Incompatible materials	:	Oxidizing agents
Hazardous decomposition	:	No hazardous decomposition products are known.
products		



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#### SECTION 11. TOXICOLOGICAL INFORMATION

Exposure routes

: Inhalation Skin contact Ingestion Eye contact

# Acute toxicity

Not classified based on available information.

### Components:

Oxystanin monopostato (colt)	
Oxytocin, monoacetate (salt): Acute oral toxicity :	LD50 (Mouse): > 514 mg/kg
	LD50 (Rat): > 21 mg/kg
Acute toxicity (other routes of : administration)	LD50 (Mouse): > 514 mg/kg Application Route: Subcutaneous
	LD50 (Mouse): 5.8 mg/kg Application Route: Intravenous
	LD50 (Rat): > 21 mg/kg Application Route: Subcutaneous
	LD50 (Rat): 2.3 mg/kg

Skin corrosion/irritation

Not classified based on available information.

#### Serious eye damage/eye irritation

Not classified based on available information.

### Respiratory or skin sensitisation

#### Skin sensitisation

Not classified based on available information.

#### **Respiratory sensitisation**

Not classified based on available information.

### **Chronic toxicity**

# Germ cell mutagenicity

Not classified based on available information.

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# Components:

### Oxytocin, monoacetate (salt):

Genotoxicity in vitro

Test Type: Chromosomal aberration Test system: Human lymphocytes

**Application Route: Intravenous** 



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		Result: negative				
Carci	nogenicity					
Not cl	Not classified based on available information.					
Repro	Reproductive toxicity					
Not cl	Not classified based on available information.					
Com	oonents:					

# Oxytocin, monoacetate (salt):

Effects on foetal develop- ment	:	Test Type: Development Species: Rat Application Route: Subcutaneous Developmental Toxicity: NOAEL: 1 mg/kg body weight Result: No effects on foetal development
Reproductive toxicity - As-	:	May damage the unborn child.

sessment

#### STOT - single exposure

Not classified based on available information.

#### **STOT - repeated exposure**

Not classified based on available information.

### **Repeated dose toxicity**

### **Components:**

#### Oxytocin, monoacetate (salt):

Species	:	Rat
LOAEL		5 µg/kg
Application Route	:	Subcutaneous
Exposure time	:	5 Days
Target Organs	:	Endocrine system

### Aspiration toxicity

Not classified based on available information.

#### Experience with human exposure

#### **Components:**

#### Oxytocin, monoacetate (salt):

Inhalation	:	Target Organs: Central nervous system Symptoms: behavioral abnormalities Target Organs: Cardio-vascular system Symptoms: Increased heart rate, May cause cardiac arrhyth- mia., hypotension, tachycardia, flushing Target Organs: Gastrointestinal tract Symptoms: Nausea, Vomiting
Ingestion	:	Target Organs: Central nervous system



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		Target Organs Symptoms: Inc	havioral abnormalities : Cardio-vascular system creased heart rate, May cause cardiac arrhyth-
		Target Organs	ion, tachycardia, flushing : Gastrointestinal tract iusea, Vomiting
SECTION	12. ECOLOGICAL INFO	ORMATION	
Ecoto	oxicity		
Comp	oonents:		
Oxyto	ocin, monoacetate (sal	t):	
Ecoto	xicology Assessment		
Acute	aquatic toxicity	: Toxic effects c	annot be excluded
Chron	nic aquatic toxicity	: Toxic effects c	annot be excluded
	stence and degradabili	ity	
Bioac	cumulative potential		
Comp	oonents:		
Partiti	ocin, monoacetate (sal on coefficient: n- ol/water	t): : log Pow: 6.27	
	l <b>ity in soil</b> Ita available		
Other	<b>adverse effects</b> Ita available		

Disposar incluous		
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
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UNRTDG UN number

: Not applicable



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Prope	er shipping name	:	Not applicable	
Class		:	Not applicable	
	diary risk	:	Not applicable	
	ng group	÷	Not applicable	
Label	s onmentally hazardous	÷	Not applicable no	
	•	•	no	
IATA	-			
UN/IE		:	Not applicable	
Class	er shipping name	÷	Not applicable	
	diary risk	:	Not applicable Not applicable	
	ng group	:	Not applicable	
Label		÷	Not applicable	
Packi	ng instruction (cargo	:	Not applicable	
aircra				
	ng instruction (passen-	:	Not applicable	
ger ai	ircraft)			
IMDG	-Code			
UN ni	umber	:	Not applicable	
	er shipping name	:	Not applicable	
Class		:	Not applicable	
	diary risk	:	Not applicable	
	ng group	÷	Not applicable	
Label EmS	-		Not applicable Not applicable	
	e pollutant	:	Not applicable	
	•			
	•	-		POL 73/78 and the IBC Code
Not a	pplicable for product as	sup	plied.	
Natio	nal Regulations			

ADG		
UN number	: Not appli	cable
Proper shipping name	: Not appli	cable
Class	: Not appli	
Subsidiary risk	: Not appli	cable
Packing group	: Not appli	cable
Labels	: Not appli	cable
Hazchem Code	: Not appli	cable

# Special precautions for user

Not applicable

# **SECTION 15. REGULATORY INFORMATION**

# Safety, health and environmental regulations/legislation specific for the substance or mix-ture

Therapeutic Goods (Poisons : Standard) Instrument	No poison schedule number allocated (Please use the original publication to check for specific uses, specific conditions or
	threshold limits that might apply for this chemical)
Prohibition/Licensing Requirement	ts : There is no applicable prohibition,



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			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 determir	ned			
DSL		: not determir	ned			
IECS	С	: not determir	ned			

# SECTION 16: ANY OTHER RELEVANT INFORMATION

#### **Further information**

Revision Date Sources of key data used to compile the Safety Data Sheet	:	28.09.2024 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 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 Tem-



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perature; 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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