

Versi 2.2	on	Revision Date: 06.04.2024		S Number: 03138-00014	Date of last issue: 10.01.2024 Date of first issue: 08.10.2018	
SECTION 1: IDENTIFICATION Product name		:	Fluralaner Injecti	on Diluent Formulation		
(	Other n	neans of identification	:	Sterile Vehicle fo	r Bravecto Quantum (A011993)	
		acturer or supplier's d	letai			
(	Company		÷	Intervet Australia	Pty Limited (trading as MSD Animal Health)	
,	Address		:	91-105 Harpin Street Bendigo 3550, Victoria Austrailia		
-	Teleph	one	:	1 800 033 461		
I	Emerge	ency telephone number	r:	Poisons Informat	ion Centre: Phone 13 11 26	
I	E-mail	address	:	EHSDATASTEW	/ARD@msd.com	
	Recom	mended use of the cl	hem	ical and restriction	ons on use	
I	Recom	mended 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

#### **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.

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## **Fluralaner Injection Diluent Formulation**

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In cas If swal	e of eye contact llowed	:	Flush eyes with Get medical atte If swallowed, DO Get medical atte	ention if symptoms occur. water as a precaution. ention if irritation develops and persists. O NOT induce vomiting. ention if symptoms occur. proughly with water.
and ef delaye		:	None known.	
	ction of first-aiders to physician	:		autions are necessary for first aid responders atically and supportively.
ECTION	5. FIREFIGHTING MEA	SU	RES	
Suitab	le extinguishing media	:	Water spray Alcohol-resistar Carbon dioxide Dry chemical	
Unsuit media	able extinguishing	:	None known.	
Specif fightin	ic hazards during fire- g	:	Exposure to cor	nbustion products may be a hazard to health
Hazar ucts	dous combustion prod-	:	Carbon oxides Metal oxides	
Specif ods	ic extinguishing meth-	:	cumstances and Use water spray	ng measures that are appropriate to local cir- d the surrounding environment. v to cool unopened containers. aged containers from fire area if it is safe to o
	al protective equipment fighters	:	Wear self-conta essary.	ined breathing apparatus for firefighting if neo otective equipment.
ECTION	6. ACCIDENTAL RELE	ASI	E MEASURES	
tive ec	nal precautions, protec- quipment and emer- procedures	:		dling advice (see section 7) and personal pro nt recommendations (see section 8).
Enviro	nmental precautions	:	Prevent further Prevent spreadi barriers). Retain and disp	o the environment. leakage or spillage if safe to do so. ng over a wide area (e.g. by containment or o ose of contaminated wash water. s should be advised if significant spillages ined.
	ds and materials for nment and cleaning up	:	For large spills,	ert absorbent material. provide dyking or other appropriate contain- aterial from spreading. If dyked material can



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		• • •	pre recovered material in appropriate container.		
		Clean up remaining materials from spill with suitable absor- bent. Local or national regulations may apply to releases and dis posal of this material, as well as those materials and items employed in the cleanup of releases. You will need to deter mine which regulations are applicable. Sections 13 and 15 of this SDS provide information regardi certain local or national requirements.			
SECTION	7. HANDLING AND	STORAGE			

#### **Technical measures** See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section. Local/Total ventilation Use only with adequate ventilation. : Advice on safe handling Handle in accordance with good industrial hygiene and safety : practice, based on the results of the workplace exposure assessment 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. Keep in properly labelled containers. Conditions for safe storage Store in accordance with the particular national regulations. No special restrictions on storage with other products. Materials to avoid :

#### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters

Contains no substances with occupational exposure limit values.

Engineering measures	:	Use appropriate engineering controls and manufacturing technologies to control airborne concentrations (e.g., drip- less quick connections). All engineering controls should be implemented by facility design and operated in accordance with GMP principles to protect products, workers, and the environment. Laboratory operations do not require special containment.
Personal protective equipm	ent	
Respiratory protection		If adequate local exhaust ventilation is not available or expo-



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	Filter type and protection Material /e protection	: :	Organic vapour ty Chemical-resistar Wear safety glass	
CI.	kin and body protection		mists or aerosols, Wear a faceshield	wear the appropriate goggles. d or other full face protection if there is a t contact to the face with dusts, mists, or
	ON 9. PHYSICAL AND CHE	Emic		•
Ap	opearance	:	liquid	
Co	olour	:	off-white	
0	dour	:	very faint	
0	dour Threshold	:	No data available	9
рŀ	4	:	7.0 - 7.4	
M	elting point/freezing point	:	No data available	9
	itial boiling point and boiling nge	:	No data available	9
Fl	ash point	:	No data available	9
E١	vaporation rate	:	No data available	9
Fl	ammability (solid, gas)	:	No data available	9
Fla	ammability (liquids)	:	No data available	9
	oper explosion limit / Upper ammability limit	:	No data available	9
	ower explosion limit / Lower ammability limit	:	No data available	9
Va	apour pressure	:	No data available	9
Re	elative vapour density	:	No data available	9
Re	elative density	:	No data available	9
De	ensity	:	1.013 g/cm <sup>3</sup>	
So	olubility(ies)			



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	Water solubility	: No	data available	9				
	rtition coefficient: n- tanol/water	: No	t applicable					
	ito-ignition temperature	: No	data available	)				
De	Decomposition temperature Viscosity Viscosity, kinematic		: No data available					
Vis			data available	9				
Explosive properties		: No	t explosive					
Ox	idizing properties	: Th	e substance o	r mixture is not classified as oxidizing.				
Мо	blecular weight	: No	data available	9				
	rticle characteristics rticle size	: No	t applicable					

#### SECTION 10. STABILITY AND REACTIVITY

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

#### SECTION 11. TOXICOLOGICAL INFORMATION

Exposure routes	:	Inhalation Skin contact Ingestion Eye contact
Acute toxicity Not classified based on availa	ble	
Product: Acute oral toxicity	:	Acute toxicity estimate: > 2,00 Method: Calculation method
Acute inhalation toxicity	:	Acute toxicity estimate: > 5 m

ute inhalation toxicity	:	Acute toxicity estimate: > 5 mg/l Exposure time: 4 h Test atmosphere: dust/mist
		Method: Calculation method

2,000 mg/kg



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				-

#### **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

#### 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:

Result	:	Rabbit 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.



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<u>Com</u>	oonents:				
Benz	yl alcohol:				
Geno	toxicity in vitro	:	Test Type: Bac Result: negative	terial reverse mutation assay (AMES) e	
Geno	toxicity in vivo	:	Test Type: Mammalian erythrocyte micronucleus test (in viv cytogenetic assay) Species: Mouse Application Route: Intraperitoneal injection Result: negative		
	nogenicity lassified based on avai	ilable	information.		
Com	oonents:				
Benz	yl alcohol:				
Speci Applic	es cation Route sure time od	:	Mouse Ingestion 103 weeks OECD Test Gu negative	ideline 451	
-	oductive toxicity lassified based on avai	ilable	information.		
<u>Comp</u>	oonents:				
	<b>yl alcohol:</b> is on fertility	:	Species: Rat Application Rou Result: negative		
Effect ment	s on foetal develop-	:	Test Type: Emb Species: Mouse Application Rou Result: negative	ute: Ingestion	
	- single exposure lassified based on avai	ilable	information.		
	- repeated exposure lassified based on avai		information.		
Repe	ated dose toxicity				
-	oonents:				

### Components:

Benzyl alcohol:



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Species NOAEL Application Route Exposure time	<ul> <li>Rat</li> <li>1.072 mg/l</li> <li>inhalation (dust/mist/fume)</li> <li>28 Days</li> </ul>
Method	: OECD Test Guideline 412

#### Aspiration toxicity

Not classified based on available information.

#### **SECTION 12. ECOLOGICAL INFORMATION**

#### Ecotoxicity

#### Components:

Benzyl alcohol:	
Toxicity to fish :	LC50 (Pimephales promelas (fathead minnow)): 460 mg/l Exposure time: 96 h
Toxicity to daphnia and other : aquatic invertebrates	EC50 (Daphnia magna (Water flea)): 230 mg/l Exposure time: 48 h Method: OECD Test Guideline 202
Toxicity to algae/aquatic : plants	EC50 (Pseudokirchneriella subcapitata (green algae)): 770 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
	NOEC (Pseudokirchneriella subcapitata (green algae)): 310 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
Toxicity to daphnia and other : aquatic invertebrates (Chron- ic toxicity)	NOEC (Daphnia magna (Water flea)): 51 mg/l Exposure time: 21 d Method: OECD Test Guideline 211
Persistence and degradability	
Components:	
<b>Benzyl alcohol:</b> Biodegradability :	Result: Readily biodegradable. Biodegradation: 92 - 96 % Exposure time: 14 d
Bioaccumulative potential	
Components:	

#### Benzyl alcohol:



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octar <b>Mob</b> i No da <b>Othe</b> No da	tion coefficient: n- nol/water <b>ility in soil</b> ata available <b>er adverse effects</b> ata available	: log Pow: 1.05	
SECTION	I 13. DISPOSAL CONSI	DERATIONS	
Wast	osal methods te from residues aminated packaging	Dispose of in a Empty contain dling site for re	e of waste into sewer. accordance with local regulations. lers should be taken to an approved waste han- ecycling or disposal. e specified: Dispose of as unused product.
	I 14. TRANSPORT INFO		
Inter	national Regulations		
Prop Class Subs Pack Labe	humber er shipping name s sidiary risk ting group	<ul> <li>Not applicable</li> <li>no</li> </ul>	
IATA UN/II Prop Class Subs Pack Labe Pack aircra Pack	A-DGR D No. er shipping name s sidiary risk sing group els sing instruction (cargo	<ul> <li>Not applicable</li> </ul>	
IMDC UN n Prop Class Subs Pack Labe EmS	<b>G-Code</b> number er shipping name s sidiary risk ting group	<ul> <li>Not applicable</li> </ul>	



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#### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

#### National Regulations

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

Special precautions for user

Not applicable

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

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

Therapeutic Goods (Poisons : No poison schedule number allocated Standard) Instrument

Prohibition/Licensing Requirements

: There is no applicable prohibition, authorisation and restricted use requirements, including for carcinogens referred to in Schedule 10 of the model WHS Act and Regulations.

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

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

#### SECTION 16: ANY OTHER RELEVANT INFORMATION

#### Further information

Revision Date Sources of key data used to compile the Safety Data Sheet	:	06.04.2024 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 abbreviation	ons	



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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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