

Version 7.0	Revision Date: 19.01.2024		S Number: 03130-00014		sue: 10.01.2024 sue: 08.10.2018
Section 1	: Identification				
Prod	uct name	:	Fluralaner Injecti	on Diluent Form	nulation
Othe	r means of identification	:	Sterile Vehicle fo	r Bravecto Qua	ntum (A011993)
Manu	ufacturer or supplier's d	letai	ls		
Com	pany	:	MSD		
Addro	ess	:	33 Whakatiki Stro Upper Hutt - Nev		g 908
Telep	phone	:	0800 800 543		
Emei	rgency telephone number	· :	0800 764 766 (08 CHEMCALL)	800 POISON)	0800 243 622 (0800
E-ma	ail address	:	EHSDATASTEW	/ARD@msd.cor	n
Reco	ommended use of the cl	nem	ical and restriction	ons on use	
	ommended use rictions on use	:	Veterinary produ Not applicable	ct	
Section 2	: Hazard identification				
GHS	Classification				
Skin	sensitisation		Category 1		

GHS Classification		
Skin sensitisation	:	Category 1
GHS label elements		
Hazard pictograms	:	
Signal word	:	Warning
Hazard statements	:	H317 May cause an allergic skin reaction.
Precautionary statements	:	Prevention: P261 Avoid breathing mist or vapours. P272 Contaminated work clothing should not be allowed out of the workplace. P280 Wear protective gloves.
		Response: P302 + P352 IF ON SKIN: Wash with plenty of water.



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P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention. P362 + P364 Take off contaminated clothing and wash it before reuse.

Disposal:

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

Other hazards which do not result in classification

None known.

Section 3: Composition/information on ingredients

Substance / Mixture	:	Mixture
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Components

Chemical name	CAS-No.	Concentration (% w/w)
Benzyl alcohol	100-51-6	>= 1 -< 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. Get medical attention if symptoms occur.
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 if symptoms occur. Rinse mouth thoroughly with water.
Most important symptoms and effects, both acute and delayed	:	May cause an allergic skin reaction.
Protection of first-aiders Notes to physician	:	No special precautions are necessary for first aid responders. 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	:	None known.
Specific hazards during fire- fighting	:	Exposure to combustion products may be a hazard to health.
Hazardous combustion prod- ucts	:	Carbon oxides Metal oxides
Specific extinguishing meth-	:	Use extinguishing measures that are appropriate to local cir-

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	ods		cumstances and the surrounding environment.		
	003		Use water spray to cool unopened containers. Remove undamaged containers from fire area if it is safe to d so.		
	Special protective equipment for firefighters	:	Evacuate area. Wear self-contained breathing apparatus for firefighting if nec essary. Use personal protective equipment.		
ect	ion 6: Accidental release me	ası	ıres		
t	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 or barriers). Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained.		
	Methods and materials for containment and cleaning up	:	Soak up with inert absorbent material. For large spills, provide dyking or other appropriate contain- ment to keep material from spreading. If dyked material can be pumped, store 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 regarding certain local or national requirements.		
ecti	ion 7: Handling and storage				
	Technical measures	:	See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.		
	Local/Total ventilation Advice on safe handling	:	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		
	Hygiene measures	:	environment. If exposure to chemical is likely during typical use, provide ey 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		
			3/12		



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	tions for safe storage ials to avoid	appropriate dego industrial hygien use of administra : Keep in properly Store in accorda	trols, proper personal protective equipment, owning and decontamination procedures, e monitoring, medical surveillance and the ative controls. r labelled containers. Ince with the particular national regulations. ctions on storage with other products.

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 equipment	ent	
Respiratory protection Filter type	:	If adequate local exhaust ventilation is not available or expo- sure assessment demonstrates exposures outside the rec- ommended guidelines, use respiratory protection. Organic vapour type
Hand protection		
Material	:	Chemical-resistant gloves
Eye protection	:	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.
Skin and body protection	:	Work uniform or laboratory coat.

Section 9: Physical and chemical properties

Appearance	:	liquid
Colour	:	off-white
Odour	:	very faint
Odour Threshold	:	No data available
рН	:	7.0 - 7.4
Melting point/freezing point	:	No data available



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	Initial bo range	iling point and boiling	:	No data available	2	
	Flash po	pint	:	No data available)	
	Evapora	ation rate	:	No data available	9	
	Flamma	bility (solid, gas)	:	No data available	9	
	Flamma	bility (liquids)	:	No data available)	
		xplosion limit / Upper pility limit	:	No data available		
		xplosion limit / Lower pility limit	:	No data available	2	
	Vapour	pressure	:	No data available)	
	Relative	vapour density	:	No data available)	
	Relative	density	:	No data available)	
	Density		:	1.013 g/cm ³		
	Solubilit Wate	y(ies) er solubility	:	No data available)	
	Partition	coefficient: n-	:	Not applicable		
		nition temperature	:	No data available)	
	Decomp	oosition temperature	:	No data available)	
	Viscosity Visco	y osity, kinematic	:	No data available)	
	Explosiv	ve properties	:	Not explosive		
	Oxidizin	g properties	:	The substance or	r mixture is not clas	sified as oxidizing.
	Molecula	ar weight	:	No data available)	
	Particle	size	:	Not applicable		

Section 10: Stability and reactivity

Reactivity	:	Not classified as a reactivity hazard.
Chemical stability Possibility of hazardous reac-		Stable under normal conditions.
FOSSIBILITY OF HAZAIDOUS TEAC-	·	NUTE KIUWII.



ersion 0	Revision Date: 19.01.2024		0S Number: 03130-00014	Date of last issue: 10.01.2024 Date of first issue: 08.10.2018
Incom	itions to avoid npatible materials rdous decomposition licts		None known. None. No hazardous	decomposition products are known.
ection 1 ⁻	1: Toxicological infor	matio	on	
Expos	sure routes	:	Inhalation Skin contact Ingestion Eye contact	
Acute	e toxicity			
Not cl	lassified based on avai	lable	information.	
Prod				
Acute	e oral toxicity	:	Acute toxicity e Method: Calcula	stimate: > 2,000 mg/kg ation method
Acute	inhalation toxicity	:	Acute toxicity e Exposure time: Test atmospher Method: Calcula	re: dust/mist
Acute	e dermal toxicity	:	Acute toxicity e Method: Calcula	stimate: > 2,000 mg/kg ation method
<u>Com</u>	oonents:			
Benz	yl alcohol:			
	oral toxicity	:	LD50 (Rat): 1,6	20 mg/kg
Acute	inhalation toxicity	:	LC50 (Rat): > 4 Exposure time: Test atmospher Method: OECD	4 h
Acute	e dermal toxicity	:	Method: Expert	stimate: 1,100 mg/kg judgement d on national or regional regulation.
	corrosion/irritation			
	lassified based on avai	lable	information.	
Com	ponents:			

Benzyl alcohol:	
Species	



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Serious eye damage/eye irritation

Not classified based on available information.

Components:

Benzyl alcohol:

Species	:	Rabbit
		Irritation to eyes, reversing within 21 days
Method	:	OECD Test Guideline 405

Respiratory or skin sensitisation

Skin sensitisation

May cause an allergic skin reaction.

Respiratory sensitisation

Not classified based on available information.

Components:

Benzyl alcohol:

Assessment	:	Probability or evidence of skin sensitisation in humans
Remarks	:	Based on national or regional regulation.

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 Result: negative

Carcinogenicity

Not classified based on available information.

Components:

Benzyl alcohol:

Species	:	Mouse
Application Route	:	Ingestion
Exposure time	:	103 weeks
Method	:	OECD Test Guideline 451
Result	:	negative



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Reproductive toxicity

Not classified based on available information.

Components:

Benzyl alcohol:

Effects on fertility	:	Test Type: Fertility/early embryonic development Species: Rat Application Route: Ingestion Result: negative Remarks: Based on data from similar materials
Effects on foetal develop- ment	:	Test Type: Embryo-foetal development Species: Mouse Application Route: Ingestion Result: negative

STOT - single exposure

Not classified based on available information.

STOT - repeated exposure

Not classified based on available information.

Repeated dose toxicity

Components:

Benzyl alcohol:

Species	: Rat
NOAEL	: 1.072 mg/l
Application Route	: inhalation (dust/mist/fume)
Exposure time	: 28 Days
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



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Toxicity to algae/aquatic plants		:	EC50 (Pseudokirchneriella subcapitata (green algae)): 770 mg/l Exposure time: 72 h Method: OECD Test Guideline 201		
			mg/l Exposure time: 7	irchneriella subcapitata (green algae)): 310 '2 h Fest Guideline 201	
	ty to daphnia and other ic invertebrates (Chron- city)		NOEC (Daphnia magna (Water flea)): 51 mg/l Exposure time: 21 d Method: OECD Test Guideline 211		
Persis	stence and degradabil	ity			
<u>Comp</u>	oonents:				
-	yl alcohol: gradability	:	Result: Readily b Biodegradation: Exposure time: 1	92 - 96 %	
Bioac	cumulative potential				
<u>Comp</u>	oonents:				
Partiti	yl alcohol: on coefficient: n- ol/water	:	log Pow: 1.05		
	ity in soil ta available				
Other	adverse effects				
No da	ta 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



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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	: Not applicable	
aircraft)		
Packing instruction (passen-	: Not applicable	
ger aircraft)		
IMDG-Code		
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 MARI	POL 73/78 and the IBC Code
Not applicable for product as	•	
National Regulations		
NZS 5433		

NZS 3433		
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

HSNO Approval Number

HSR100757 Veterinary Medicines Limited Pack Size Finished Dose Group Standard



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HSW Controls

Certified handler certificate not required. Tracking hazardous substance not required. Refer to the Health and Safety at Work (Hazardous Substances) Regulations 2017, for further information.

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

Section 16: Other information

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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/

Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

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, Bioaccumu-



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lative 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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