

Version 2.16	Revision Date: 28.09.2024		S Number: 1871-00022	Date of last issue: 23.07.2024 Date of first issue: 05.10.2016
	1: IDENTIFICATION	:	Fluralaner (with \	/itamin E) Formulation
	means of identification	:	EXZOLT (A0113	
Manu	facturer or supplier's o	detai	ils	
Comp	any	:	Intervet Australia	Pty Limited (trading as MSD Animal Health)
Addre	SS	:	91-105 Harpin Si Bendigo 3550, V	
Telep	hone	:	1 800 033 461	
Emer	gency telephone numbe	r:	Poisons Informat	ion Centre: Phone 13 11 26
E-mai	l address	:	EHSDATASTEW	/ARD@msd.com
Reco	mmended use of the c	hem	ical and restriction	ons on use
	nmended use ctions on use	:	Veterinary produ 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

•	IVIIN	tur	6

Chemical name	CAS-No.	Concentration (% w/w)
Fluralaner	864731-61-3	< 3

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

General advice

: In the case of accident or if you feel unwell, seek medical ad-



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	If inhale In case	ed of skin contact	:	advice. If inhaled, remove Get medical atten In case of contact of water. Remove contamin Get medical atten Wash clothing be	tion. , immediately flush skin with soap and plenty nated clothing and shoes. tion.
	In case	of eye contact	:	Flush eyes with w Get medical atten	vater as a precaution. tion if irritation develops and persists. NOT induce vomiting.
	Most im and effe	portant symptoms ects, both acute and	:	Get medical atten	
		on of first-aiders o physician	:	and use the recor when the potentia	ers should pay attention to self-protection, nmended personal protective equipment al for exposure exists (see section 8). cally and supportively.
SEC	TION 5.	FIREFIGHTING MEA	SU	RES	
	Suitable	e extinguishing media	:	Water spray Alcohol-resistant Carbon dioxide (C Dry chemical	
	Unsuita media	ble extinguishing	:	None known.	
	Specific fighting	hazards during fire-	:	Exposure to comb	pustion products may be a hazard to health.
	Hazard ucts	ous combustion prod-	:	Carbon oxides Chlorine compour Fluorine compour	
	Specific ods	extinguishing meth-	:	cumstances and t Use water spray t	g measures that are appropriate to local cir- the surrounding environment. to cool unopened containers. ged containers from fire area if it is safe to do
	Special for firefi	protective equipment ghters	:		e, wear self-contained breathing apparatus. tective equipment.
	Hazche	m Code	:	•3Z	



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### 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. 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.
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.

#### SECTION 7. HANDLING AND STORAGE

Technical measures	See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.
	<ul> <li>Use only with adequate ventilation.</li> <li>Avoid inhalation of vapour or mist.</li> <li>Do not swallow.</li> <li>Avoid contact with eyes.</li> <li>Avoid prolonged or repeated contact with skin.</li> <li>Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure assessment</li> </ul>
	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



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Conditions for safe storage Materials to avoid	Store in accorda	labelled containers. nce with the particular national regulations. In the following product types:

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components	CA	AS-No.	Value type	Control parame-	Basis	
			(Form of	ters / Permissible		
		4704 04 0	exposure)	concentration	linte interal	
Fluralaner		4731-61-3	TWA	100 µg/m3 (OEB 2)	Internal	
	Fι	urther information				
			Wipe limit	1000 µg/100 cm²	Internal	
Engineering measures	te le A d	echnologies t ess quick cor Il engineerin esign and op rotect produc	to control airborn nections). g controls shoul perated in accord cts, workers, and	controls and manufactions concentrations (e.g d be implemented by dance with GMP prine d the environment. require special conta	g., drip- facility ciples to	
Personal protective equipm	ent					
Respiratory protection	S	ure assessm	ent demonstrate	tilation is not availables exposures outside spiratory protection.		
Filter type Hand protection	: C	ombined par	rticulates and or	ganic vapour type		
Material	: C	Chemical-resistant gloves				
Eye protection	lf m V p a	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	: V	ork uniform	or laboratory co	oat.		
TION 9. PHYSICAL AND CH	EMICA		TIES			
Appearance	· 1	iauid				

#### Components with workplace control parameters

### SEC

Appearance	:	liquid
Colour	:	yellow
Odour	:	No data available
Odour Threshold	:	No data available



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	рН		:	No data available	
	Melting	point/freezing point	:	No data available	)
	Initial b range	oiling point and boiling	:	No data available	
	Flash p	point	:	103 °C	
	Evapor	ation rate	:	No data available	)
	Flamm	ability (solid, gas)	:	Not applicable	
	Flamm	ability (liquids)	:	No data available	)
		explosion limit / Upper ability limit	:	No data available	
		explosion limit / Lower ability limit	:	No data available	
	Vapour	pressure	:	No data available	
	Relativ	e vapour density	:	No data available	)
	Relativ	e density	:	No data available	)
	Density	/	:	1,045 kg/m³ (25 °	°C)
	Solubil Wat	ity(ies) ter solubility	:	soluble	
	Partitio octano	n coefficient: n-	:	Not applicable	
		nition temperature	:	No data available	
	Decom	position temperature	:	No data available	
	Viscosi Visc	ty cosity, dynamic	:	0.145 Pas ( 25 °C	C)
	Viso	cosity, kinematic	:	139 mm2/s ( 25 °	C)
	Explos	ive properties	:	Not explosive	
	Oxidizi	ng properties	:	The substance o	r mixture is not classified as oxidizing.
	Molecu	llar weight	:	Not applicable	



aracteristics ze <b>STABILITY AND RE</b> stability of hazardous reac- s to avoid ble materials s decomposition <b>FOXICOLOGICAL I</b> routes	: : : : NFC	Not classified as Stable under no Can react with s None known. Oxidizing agent No hazardous o	s a reactivity hazard. rmal conditions. strong oxidizing agents. s ecomposition products are known.
stability of hazardous reac- s to avoid ble materials s decomposition <b>FOXICOLOGICAL I</b>	: : : : NFC	Not classified as Stable under no Can react with s None known. Oxidizing agent No hazardous o	rmal conditions. strong oxidizing agents. s
of hazardous reac- s to avoid ble materials s decomposition		Stable under no Can react with s None known. Oxidizing agent No hazardous o	rmal conditions. strong oxidizing agents. s
ole materials s decomposition		Oxidizing agent No hazardous c	
routes	:	Inhalation	
		Skin contact Ingestion Eye contact	
ied based on availa	ble i	nformation.	
	:	Remarks: No mo	000 mg/kg ortality observed at this dose. verse effects were reported
nal toxicity	:		000 mg/kg nificant adverse effects were reported
	ble i	nformation.	
nts:			
r:	:	Rabbit No skin irritation	
nts:			
r:	:	Rabbit Mild eye irritatior	1
	ents: r: toxicity mal toxicity osion/irritation fied based on availa ents: r: ye damage/eye irri	fied based on available i ents: r: toxicity : mal toxicity : osion/irritation fied based on available i ents: r: ye damage/eye irritation fied based on available i ents:	fied based on available information. ents: r: toxicity : LD50 (Rat): > 2,0 Remarks: No mo No significant ad mal toxicity : LD50 (Rat): > 2,0 Remarks: No mo No significant ad mal toxicity : LD50 (Rat): > 2,0 Remarks: No significant ad mal toxicity :



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#### Respiratory or skin sensitisation

#### Skin sensitisation

Not classified based on available information.

#### Respiratory sensitisation

Not classified based on available information.

#### **Components:**

#### Fluralaner:

Test Type	:	Maximisation Test
Exposure routes	:	Dermal
Species	:	Guinea pig
Result	:	Not a skin sensitizer.

#### Chronic toxicity

**Germ cell mutagenicity** Not classified based on available information.

#### Components:

#### Fluralaner:

Genotoxicity in vitro :	Test Type: Bacterial reverse mutation assay (AMES) Result: negative
	Test Type: Mouse Lymphoma Result: negative
	Test Type: Chromosomal aberration Result: negative
Genotoxicity in vivo :	Test Type: Micronucleus test Species: Mouse Cell type: Bone marrow Application Route: Oral Result: negative

#### Carcinogenicity

Not classified based on available information.

#### Components:

#### Fluralaner:

Carcinogenicity - Assess- : No data available ment

#### Reproductive toxicity

Not classified based on available information.



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<u>Comp</u>	onents:			
Flural	aner:			
Effects	s on fertility	Specie Applica Genera Genera Result	s: Rat ation Route al Toxicity - al Toxicity F	eneration study : Oral Parent: NOAEL: 50 mg/kg body weight :1: LOAEL: 100 mg/kg body weight on fertility, Postimplantation loss., Advers
		Specie Applica Fertility Result ment w	s: Dog ation Route /: NOAEL: 7 No effects vere detected	75 mg/kg body weight on fertility and early embryonic develop-
Effects on foetal develop- ment		Specie Applica Develo Result spring	ation Route opmental To : Embryoto	: Oral exicity: NOAEL: 100 mg/kg body weight kic effects and adverse effects on the off- ted only at high maternally toxic doses, No
		Specie Applica Develo Result	Skeletal m	
		Specie Applica Develo		
Repro sessm	ductive toxicity - As- ent	: Suspe	cted of dam	aging the unborn child.
STOT	- single exposure			
Not cla	assified based on avail	able informa	tion.	
	- repeated exposure assified based on avail	able informa	tion.	
	ated dose toxicity			
-	onents:			
	aner:			



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Expo	EL cation Route sure time et Organs	: Dog : 1 mg/kg : Oral : 52 Weeks : Liver : No significar	nt adverse effects were reported
	EL cation Route sure time	: Juvenile dog : 56 - 280 mg : Oral : 24 Weeks : Diarrhoea	
Expo		: Rat : 400 mg/kg : Oral : 90 Days : Liver, thymu	s gland
Expo	EL cation Route sure time et Organs	: Rat : 500 mg/kg : Dermal : 90 Days : Liver : No significar	nt adverse effects were reported
Not c <u>Com</u> Flura	ration toxicity lassified based on ava ponents: laner: pplicable	ailable information.	
Expe	rience with human e	xposure	
<b>Flura</b> Skin e	ponents: laner: contact contact		ay irritate skin. ay cause eye irritation.
SECTION	12. ECOLOGICAL IN	IFORMATION	
	oxicity		
Flura	ponents: laner: ity to fish	Exposure tir	rhynchus mykiss (rainbow trout)): > 0.0488 mg/l ne: 96 h CD Test Guideline 203
		9 /	13



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			Remarks: No toxi	city at the limit of solubility
	ty to daphnia and other ic invertebrates	:	Exposure time: 48 Method: OECD Te	
Toxici plants	ty to algae/aquatic	:	0.08 mg/l Exposure time: 72 Method: OECD To	
Toxici icity)	ty to fish (Chronic tox-	:	NOEC (Zebrafish) Exposure time: 21 Method: OECD To Remarks: No toxid	ld
	ty to daphnia and other ic invertebrates (Chron- city)	:	NOEC (Daphnia r Exposure time: 21 Method: OECD To	
	stence and degradabili	ty		
Bioac	cumulative potential			
Comp	oonents:			
<b>Flura</b> l Bioac	laner: cumulation	:	Species: Zebrafis Bioconcentration Method: OECD Te	factor (BCF): 79.4
	on coefficient: n- ol/water	:	log Pow: 4.5	
Mobil	ity in soil			
<u>Comp</u>	oonents:			
	laner: oution among environ- al compartments	:	log Koc: 4.1	
Other	adverse effects			
Comp	oonents:			
	l <b>aner:</b> ts of PBT and vPvB sment	:	Substance is not	persistent, bioaccumulative, and toxic (PBT



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#### SECTION 13. DISPOSAL CONSIDERATIONS

: Do not dispose of waste into sewer.
Dispose of in accordance with local regulations.
: 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

UNRTDG	
UN number	: UN 3082
Proper shipping name	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Fluralaner)
Class	: 9
Packing group	: III
Labels	: 9
Environmentally hazardous	: yes
IATA-DGR	
UN/ID No.	: UN 3082
Proper shipping name	: Environmentally hazardous substance, liquid, n.o.s. (Fluralaner)
Class	: 9
Packing group	: III
Labels	: Miscellaneous
Packing instruction (cargo aircraft)	: 964
Packing instruction (passen- ger aircraft)	: 964
Environmentally hazardous	: yes
IMDG-Code	
UN number	: UN 3082
Proper shipping name	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
	N.O.S.
	(Fluralaner)
Class	: 9
Packing group	:
Labels	: 9
EmS Code	: F-A, S-F
Marine pollutant	: yes

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

Not applicable for product as supplied.

### **National Regulations**

#### ADG



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Prop	umber er shipping name	: UN 3082 : ENVIROI N.O.S. (Fluralar	NMENTALLY HAZARDOUS SUBSTANCE, LIQUID, er)
Labe Hazo	ing group	: 9 : III : 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 Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

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

Safety, health and environmen ture	tal regulations/legislatio	on specific for the substance or mix-			
Therapeutic Goods (Poisons : Standard) Instrument		the original publication to check for onditions or threshold limits that might			
Prohibition/Licensing Requireme	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**

**IECSC** 

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				

: not determined



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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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