



Fluralaner (with Vitamin E) Formulation

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SECTION 1. IDENTIFICATION

Product name Other means of identification		EXZOLT FLURALANER ORAL SOLUTION FOR CHICKENS				
		(85688)				
Manufacturer or supplier's d	eta	ails				
Company name of supplier	:	Merck & Co., Inc				
Address	:	126 E. Lincoln Avenue				
		Rahway, New Jersey U.S.A. 07065				
Telephone	:	908-740-4000				
Emergency telephone	:	1-908-423-6000				
E-mail address	:	EHSDATASTEWARD@merck.com				
Recommended use of the chemical and restrictions on use						
Recommended use	:	Veterinary product				

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the Hazardous Products Regulatio	ns
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: Not applicable

Reproductive toxicity	: Category 2
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GHS label elements

Restrictions on use

Hazard pictograms

Hazard Statements



Signal Word	:	Warning
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: H361d Suspected of damaging 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 protection and face protection.

Response:

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

Storage:

:

P405 Store locked up.

Disposal:

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

according to the Hazardous Products Regulations



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Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	Common Name/Synonym	CAS-No.	Concentration (% w/w)
Diethylene glycol mo- noethyl ether	Ethanol, 2-(2- ethoxyethoxy)-	111-90-0	>= 10 - < 30 *
Fluralaner	No data availa- ble	864731-61-3	>= 1 - < 5 *

* Actual concentration or concentration range is withheld as a trade secret

SECTION 4. FIRST AID MEASURES

General advice	:	In the case of accident or if you feel unwell, seek medical advice 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 damaging 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.

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.



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	Hazardo ucts	ous combustion prod-	:	Carbon oxides Chlorine compour Fluorine compoun	
	Specific extinguishing meth- ods		:	cumstances and t Use water spray to	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
	Special for fire-f	protective equipment	:	Evacuate area.	e, wear self-contained breathing apparatus. ective equipment.
SEC	TION 6.	ACCIDENTAL RELE	ASE	EMEASURES	
	tive equ	al precautions, protec- ipment and emer- procedures	:		ective equipment. ing advice (see section 7) and personal ent recommendations (see section 8).
	Environ	mental precautions	:	Prevent spreading oil barriers). Retain and dispos	akage or spillage if safe to do so. g over a wide area (e.g., by containment or se of contaminated wash water. should be advised if significant spillages
		s and materials for ment and cleaning up	:	For large spills, pr containment to ke can be pumped, s container. Clean up remainin absorbent. Local or national r disposal of this ma employed in the c determine which r Sections 13 and 1	a absorbent material. ovide diking or other appropriate ep material from spreading. If diked material tore recovered material in appropriate ng materials from spill with suitable egulations may apply to releases and aterial, as well as those materials and items leanup of releases. You will need to egulations are applicable. 5 of this SDS provide information regarding tional 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	:	Avoid inhalation of vapor or mist.
		Do not swallow.
		Avoid contact with eyes.
		Avoid prolonged or repeated contact with skin.
		Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure
		· ····································



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	tions for safe storage ials to avoid	environment. : Keep in properly Store in accorda	event spills, waste and minimize release to the r labeled containers. Ince with the particular national regulations. In the following product types: agents

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components	CAS-No.	Value type	Control parame-	Basis
		(Form of	ters / Permissible	
		exposure)	concentration	
Diethylene glycol monoethyl	111-90-0	TWA	30 ppm	CA ON OEL
ether			165 mg/m ³	
Fluralaner	864731-61-3	TWA	100 µg/m3 (OEB	Internal
			2)	
	Further information: Skin			
		Wipe limit	1000 µg/100 cm ²	Internal

Ingredients with workplace control parameters

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 equipme	nt			
	 If adequate local exhaust ventilation is not available or exposure assessment demonstrates exposures outside the recommended guidelines, use respiratory protection. Combined particulates and organic vapor 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 Hygiene measures	 Work uniform or laboratory coat. 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, 			

according to the Hazardous Products Regulations



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				wning and decontamination procedures, monitoring, medical surveillance and the tive controls.
SECTION	9. PHYSICAL AND CHE	EMI		S
Appe	arance	:	liquid	
Colo	r	:	yellow	
Odor		:	No data available	e
Odor	Threshold	:	No data available	e
pН		:	No data available	e
Melti	ng point/freezing point	:	No data available	e
Initia range	l boiling point and boiling e	:	No data available	9
Flash	n point	:	103 °C	
Evap	oration rate	:	No data available	e
Flam	mability (solid, gas)	:	Not applicable	
Flam	mability (liquids)	:	No data available	9
	er explosion limit / Upper nability limit	:	No data available	9
	er explosion limit / Lower nability limit	:	No data available	e
Vapo	or pressure	:	No data available	9
Rela	tive vapor density	:	No data available	e
Rela	tive density	:	No data available	e
Dens	iity	:	1,045 kg/m³ (25	°C)
	bility(ies) /ater solubility	:	soluble	
octar	tion coefficient: n- nol/water	:	Not applicable	
Auto	gnition temperature	:	No data available	9
Deco	mposition temperature	:	No data available	9
Visco	osity			



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	scosity, dynamic scosity, kinematic	: 0.145 Pas (2 : 139 mm²/s (2	
Explo	osive properties	: Not explosive	
	zing properties cular weight	: The substanc : Not applicable	e or mixture is not classified as oxidizing.
	cle characteristics cle size	: Not applicable	

SECTION 10. STABILITY AND REACTIVITY

e known.
-

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Inhalation Skin contact Ingestion Eye contact

Acute toxicity

Not classified based on available information.

Components:

Diethylene glycol monoethyl ether:

Acute oral toxicity	:	LD50 (Rat): > 5,000 mg/kg
Acute inhalation toxicity	:	LC50 (Rat): > 5.24 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403
Acute dermal toxicity	:	LD50 (Rabbit): 9,143 mg/kg
Fluralaner:		
Acute oral toxicity	:	LD50 (Rat): > 2,000 mg/kg Remarks: No mortality observed at this dose.



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			No significant a	adverse effects were reported
Acute	e dermal toxicity	:	LD50 (Rat): > 2 Remarks: No s	2,000 mg/kg ignificant adverse effects were reported
	corrosion/irritation			
	lassified based on ava ponents:	allable	information.	
	ylene glycol monoe	byl of	har	
Speci		inyr ei	Rabbit	
Resul		:	No skin irritatio	n
Flura	laner:			
Speci		:	Rabbit	
Resul	It	:	No skin irritatio	n
Serio	us eye damage/eye	irritati	on	
Not cl	lassified based on ava	ailable	information.	
<u>Comp</u>	oonents:			
Dieth	ylene glycol monoet	thyl et	her:	
Speci Resul		:	Rabbit	
Metho		:	No eye irritatior OECD Test Gu	
Flura	laner:			
Speci		:	Rabbit	
Resul	lt	:	Mild eye irritatio	n
Resp	iratory or skin sensi	tizatio	n	
Skin s	sensitization			
Not cl	lassified based on ava	ailable	information.	
-	iratory sensitization lassified based on ava		information.	
<u>Com</u>	oonents:			
Flura	laner:			
Test 1		:	Maximization T	est
Route Speci	es of exposure	:	Dermal Guinea pig	
Resul		:	Not a skin sens	sitizer

Not classified based on available information.

according to the Hazardous Products Regulations



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<u>Comp</u>	oonents:				
Dieth	ylene glycol monoeti	hyl et	her:		
Geno	toxicity in vitro	:	: Test Type: Bacterial reverse mutation assay (AM Method: OECD Test Guideline 471 Result: negative		
Genotoxicity in vivo		:	Test Type: Uns mammalian live Species: Rat Application Rou Result: negative	ite: Ingestion	
Flura	laner:				
Geno	toxicity in vitro	:	Test Type: Bact Result: negative	terial reverse mutation assay (AMES) e	
			Test Type: Mou Result: negative		
			Test Type: Chro Result: negative	omosomal aberration e	
Geno	toxicity in vivo	:	: Test Type: Micronucleus test Species: Mouse Cell type: Bone marrow Application Route: Oral Result: negative		
	nogenicity assified based on ava	ilable	information.		
Comp	oonents:				
Flura	laner:				
Carcir ment	nogenicity - Assess-	:	No data availab	le	
-	oductive toxicity ected of damaging the	unbo	rn child.		
Comp	oonents:				
Dieth	ylene glycol monoetl	hyl et	her:		
Effect	s on fertility	:	Test Type: Two Species: Mouse Application Rou Result: negative	ite: Ingestion	
Effect	s on fetal developmen	t:	Test Type: Emb Species: Rat Application Rou	oryo-fetal development ite: Ingestion	





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		R	esult: negativ	e
FI	uralaner:			
	Effects on fertility		pecies: Rat pplication Rou eneral Toxicit eneral Toxicit	y Parent: NOAEL: 50 mg/kg body weight y F1: LOAEL: 100 mg/kg body weight cts on fertility., Postimplantation loss., Adverse
		S A F R d	pecies: Dog pplication Rou ertility: NOAE esult: No effe evelopment w	L: 75 mg/kg body weight cts on fertility and early embryonic
E	ffects on fetal develo	S A D R o	esult: Embryo	ute: Oral Toxicity: NOAEL: 100 mg/kg body weight toxic effects and adverse effects on the detected only at high maternally toxic doses,
		S A D R	esult: Skeleta	t
		S A D		t
	eproductive toxicity - essment	As- : S	uspected of d	amaging the unborn child.
S	TOT-single exposu	re		
N	ot classified based o	n available inf	ormation.	

STOT-repeated exposure

Not classified based on available information.

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Compo				
Diethy				
	lene glycol monoei	thyl et	her:	
Species		:	Dog	
NOAEL		:	1,000 mg/kg	
Exposu	tion Route ire time	:	Ingestion 13 Weeks	
Specie		:	Rat	
NOAEL Applica	- tion Route	:	>= 1.06 mg/l inhalation (dust/	(mist/fume)
Exposu		:	28 Days	miserume)
Specie		:	Rabbit	
NOAEL	- tion Route	:	>= 1,000 mg/kg Skin contact	
Exposu		:	28 Days	
Flurala	ner:			
Species	5	:	Dog	
NOAEL		:	1 mg/kg	
Applica Exposu	tion Route	÷	Oral 52 Weeks	
	Organs	:	Liver	
Remark		:	No significant ac	dverse effects were reported
Specie: LOAEL		:	Juvenile dog	
-	tion Route	:	56 - 280 mg/kg Oral	
Exposu		:	24 Weeks	
Sympto	oms	:	Diarrhea	
Species		:	Rat	
	tion Route	:	400 mg/kg Oral	
Exposu		:	90 Days	
	Organs	:	Liver, thymus gl	and
Specie: NOAEL		:	Rat	
	- tion Route	:	500 mg/kg Dermal	
	ire time	:	90 Days	
Target	Organs	:	Liver	
Remark	<s< td=""><td>:</td><td>No significant ac</td><td>dverse effects were reported</td></s<>	:	No significant ac	dverse effects were reported

Aspiration toxicity

Not classified based on available information.

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<u>Comp</u>	oonents:						
Flura	aner:						
Not ap	oplicable						
Expe	ience with human exp	osu	ire				
Comp	oonents:						
Flura	aner:						
Skin c	ontact	:	Remarks: May	irritate skin.			
Eye c	ontact	:	Remarks: May	cause eye irritation.			
ECTION	12. ECOLOGICAL INFO	ORN	IATION				
Ecoto	vicity						
	-						
Comp	oonents:						
	ylene glycol monoethy	l et					
Toxici	ty to fish	:	LC50 (Ictalurus Exposure time:	s catus (catfish)): 6,010 mg/l 96 h			
	ty to daphnia and other ic invertebrates	:	EC50 (Daphnia magna (Water flea)): 1,982 mg/l Exposure time: 48 h				
Toxici plants	ty to algae/aquatic	:	Exposure time: Method: OECD	strum capricornutum (green algae)): > 100 mg. 96 h 9 Test Guideline 201 ed on data from similar materials			
			mg/l Exposure time: Method: OECD	strum capricornutum (green algae)): >= 100 96 h 9 Test Guideline 201 ed on data from similar materials			
Toxici	ty to microorganisms	:					
Flural	aner:						
	ty to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): > 0.0488 mg Exposure time: 96 h Method: OECD Test Guideline 203 Remarks: No toxicity at the limit of solubility.				
	ty to daphnia and other c invertebrates	:	EC50 (Daphnia magna (Water flea)): > 0.015 mg/l Exposure time: 48 h Method: OECD Test Guideline 202 Remarks: No toxicity at the limit of solubility.				
Tavia	ty to algae/aquatic	:	NOEC (Pseudokirchneriella subcapitata (green algae)): >= 0.08 mg/l				



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			Exposure time: 72 Method: OECD To Remarks: No toxio	
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 Te	
Persis	stence and degradabili	ty		
Comp	oonents:			
Diethy	ylene glycol monoethy	l et	her:	
Biode	gradability	:	Result: Readily bi Biodegradation: 7 Exposure time: 16 Method: OECD To	100 %
Bioac	cumulative potential			
<u>Comp</u>	oonents:			
Diethy	ylene glycol monoethy	l et	her:	
	on coefficient: n- pl/water	:	log Pow: -0.54	
Flural	aner:			
Bioaco	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>	onents:			
Flural	aner:			
	oution among environ- Il compartments	:	log Koc: 4.1	
Other	adverse effects			
Comp				
	oonents:			
Flural				

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SECTION 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
		handling 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	:	III
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.

Domestic regulation

TDG

UN number	:	UN 3082
Proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,



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Labels ERG C		 N.O.S. (Fluralaner) 9 III 9 171 yes(Fluralaner)	

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

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

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

SECTION 16. OTHER INFORMATION

Full text of other abbreviations

CA ON OEL	:	Ontario Table of Occupational Exposure Limits made under
		the Occupational Health and Safety Act.
CA ON OEL / TWA	:	Time-Weighted Average Limit (TWA)

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

Sources of key data used to compile the Material Safety Data Sheet	:	Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agen- cy, http://echa.europa.eu/
Revision Date Date format	:	07/23/2024 mm/dd/yyyy

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.

CA / Z8