

### **Fluralaner Solid Formulation**

Version	Revision Date:	SDS Number:	Date of last issue: 30.09.2023
6.2	20.11.2023	401070-00025	Date of first issue: 10.12.2015

#### SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

BRAVECTO 1-MONTH 45 MG FLURALANER CHEWABLE TABLETS FOR VERY SMALL DOGS (87863) BRAVECTO 1-MONTH 560 MG FLURALANER CHEWABLE TABLETS FOR VERY LARGE DOGS (87859) BRAVECTO 250 MG FLURALANER CHEWABLE TABLETS FOR SMALL DOGS (68872) BRAVECTO 500 MG FLURALANER CHEWABLE TABLETS FOR MEDIUM DOGS (68871)	BRAVECTO 1000 MG FLURALANER CHEWABLE TABLETS FOR LARGE DOGS (68870) BRAVECTO 112.5 MG FLURALANER CHEWABLE TABLETS FOR VERY SMALL DOGS (68867) BRAVECTO 1400 MG FLURALANER CHEWABLE TABLETS FOR VERY LARGE DOGS (68873) BRAVECTO 1-MONTH 100 MG FLURALANER CHEWABLE TABLETS FOR SMALL DOGS (87862) BRAVECTO 1-MONTH 200 MG FLURALANER CHEWABLE TABLETS FOR MEDIUM DOGS (87861) BRAVECTO 1-MONTH 400 MG FLURALANER CHEWABLE TABLETS FOR LARGE DOGS (87860)
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#### Manufacturer or supplier's details

Company name of supplier	:	MSD		
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@msd.com		
Recommended use of the chemical and restrictions on use				

Recommended use	:	Veterinary product
Restrictions on use	:	Not applicable

#### **SECTION 2. HAZARDS IDENTIFICATION**

GHS Classification Skin corrosion/irritation	: Category 3
Reproductive toxicity	: Category 2
GHS label elements Hazard pictograms	
Signal Word	: Warning



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Haza	rd Statements	: H316 Causes r H361d Suspec	nild skin irritation. ted of damaging the unborn child.
Preca	autionary Statements	P202 Do not ha	tective gloves/ protective clothing/ eye protection/
		attention.	F exposed or concerned: Get medical advice/
		<b>Storage:</b> P405 Store loc	ked up.
		<b>Disposal:</b> P501 Dispose posal plant.	of contents/ container to an approved waste dis-
Addit	ional Labeling		

#### Additional Labeling

The following percentage of the mixture consists of ingredient(s) with unknown acute oral toxicity: 2%

The following percentage of the mixture consists of ingredient(s) with unknown acute dermal toxicity: 2 %

The following percentage of the mixture consists of ingredient(s) with unknown acute inhalation toxicity: 2 %

#### Other hazards

None known.

#### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

#### Components

Chemical name	CAS-No.	Concentration (% w/w)
Starch	9005-25-8	>= 10 -< 25
Glycerine	56-81-5	>= 5 -<= 10
Sucrose	57-50-1	>= 5 -<= 10
Fluralaner	864731-61-3	>= 5 -< 20
Sodium n-dodecyl sulfate	151-21-3	>= 1 -<= 5

#### **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.



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If inhaled			If inhaled, remove to fresh air. Get medical attention.				
In c	In case of skin contact		In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.				
In ca	In case of eye contact			ater as a precaution. tion if irritation develops and persists.			
lf sv	If swallowed		t medical atter	NOT induce vomiting. ition. oughly with water.			
and	Most important symptoms and effects, both acute and delayed		uses mild skin spected of dan	irritation. naging the unborn child.			
	ection of first-aiders	and	use the recor	ers should pay attention to self-protection, nmended personal protective equipment al for exposure exists (see section 8).			
Note	es to physician	: Tre	at symptomati	cally 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.
	:	Carbon oxides Chlorine compounds Fluorine compounds Sulfur oxides Metal oxides Sodium oxides
Specific extinguishing meth- ods	:	Use extinguishing measures that are appropriate to local cir- cumstances and the surrounding environment. Use water spray to cool unopened containers. Remove undamaged containers from fire area if it is safe to do so. Evacuate area.
Special protective equipment for fire-fighters	:	In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.

#### 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 protective equipment recommendations (see section 8).
Environmental precautions	:	Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Retain and dispose of contaminated wash water.



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		Local authoritie cannot be cont	es should be advised if significant spillages ained.
	hods and materials for tainment and cleaning up	container for di Local or nation disposal of this employed in th determine whic Sections 13 an	acuum up spillage and collect in suitable isposal. al regulations may apply to releases and material, as well as those materials and items e cleanup of releases. You will need to ch regulations are applicable. d 15 of this SDS provide information regarding national requirements.

#### SECTION 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. Do not get on skin or clothing. Avoid breathing vapors. Do not swallow. Avoid contact with eyes. 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
Conditions for safe storage	:	use of administrative controls. Keep in properly labeled containers. Store locked up. 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

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis					
Starch	9005-25-8	VLE-PPT	10 mg/m <sup>3</sup>	NOM-010- STPS-2014					
		TWA	10 mg/m <sup>3</sup>	ACGIH					
Glycerine	56-81-5	VLE-PPT	10 mg/m <sup>3</sup>	NOM-010-					

#### Ingredients with workplace control parameters



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				(Mist)		STPS-20	
Sucro	se		57-50-1	VLE-PPT	10 mg/m <sup>3</sup>	NOM-010 STPS-20	
				TWA	10 mg/m <sup>3</sup>	ACGIH	
Flural	aner		864731-61-3	TWA	100 µg/m3 (OEB 2)	Internal	
			Further inform	ation: Skin			
				Wipe limit	1000 µg/100 cm <sup>2</sup>	Internal	
Perso	onal protective equip	ment	• •	cts, workers, a	nd the environment.		
		All engineering controls should be implemented by facility design and operated in accordance with GMP principles to protect products, workers, and the environment.					
	• • • •	ment					
Respi	ratory protection	:	: If adequate local exhaust ventilation is not available or exposure assessment demonstrates exposures outside the recommended guidelines, use respiratory protection.				
Filt	ter type	:			organic vapor type		
	protection		·		0 1 71		
Ma	aterial	:	Chemical-res	istant gloves			
Еуе р	rotection	:	<ul> <li>Wear safety glasses with side shields or goggles.</li> <li>If the work environment or activity involves dusty conditions, mists or aerosols, wear the appropriate goggles.</li> <li>Wear a faceshield or other full face protection if there is a potential for direct contact to the face with dusts, mists, or aerosols.</li> </ul>				
Skin a	and body protection	:		or laboratory	coat.		
CTION	9. PHYSICAL AND C	HEMI	CAL PROPER	TIES			

Appearance	:	tablet, pellets
Color	:	light brown
Odor	:	No data available
Odor 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	:	Not applicable
Evaporation rate	:	No data available
Flammability (solid, gas)	:	Not classified as a flammability hazard



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	Flamma	ability (liquids)	:	No data available	9
		explosion limit / Upper ability limit	:	No data available	
		explosion limit / Lower ability limit	:	No data available	
	Vapor p	pressure	:	No data available	
	Relative	e vapor density	:	No data available	)
	Relative	e density	:	No data available	)
	Density	/	:	No data available	)
	Solubili Wat	ity(ies) ter solubility	:	No data available	)
	Partitio octanol	n coefficient: n-	:	Not applicable	
		nition temperature	:	No data available	)
	Decom	position temperature	:	No data available	
	Viscosi Visc	ty cosity, kinematic	:	No data available	9
	Explosi	ive properties	:	Not explosive	
		ng properties	:	The substance of	r mixture is not classified as oxidizing.
	Particle	e size	:	No data available	

#### SECTION 10. STABILITY AND REACTIVITY

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

#### SECTION 11. TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure

Skin contact Ingestion Eye contact



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Acute	e toxicity			
Not cla	assified based on ava	ilable	information.	
<u>Produ</u>	<u>uct:</u>			
Acute	oral toxicity	:	Acute toxicity e Method: Calcu	estimate: > 5,000 mg/kg lation method
Comp	oonents:			
Starc	h:			
Acute	oral toxicity	:	LD50 (Rat): > \$	5,000 mg/kg
Acute	dermal toxicity	:	LD50 (Rabbit):	> 2,000 mg/kg
Glyce	erine:			
Acute	oral toxicity	:	LD50 (Rat): > \$	5,000 mg/kg
Acute	dermal toxicity	:	LD50 (Guinea	pig): > 5,000 mg/kg
Sucro	ose:			
	oral toxicity	:	LD50 (Rat): 29	,700 mg/kg
Flural	laner:			
Acute	oral toxicity	:		2,000 mg/kg nortality observed at this dose. adverse effects were reported
Acute	dermal toxicity	:	LD50 (Rat): > 2 Remarks: No s	2,000 mg/kg significant adverse effects were reported
Sodiu	ım n-dodecyl sulfate	:		
	oral toxicity	:	LD50 (Rat): 1,2 Method: OECE	200 mg/kg ) Test Guideline 401
Acute	dermal toxicity	:		2,000 mg/kg 0 Test Guideline 402 ed on data from similar materials
	corrosion/irritation es mild skin irritation.			
<u>Comp</u>	oonents:			
Glyce	erine:			
Specie Result	es	:	Rabbit No skin irritatio	n
Flural	laner:			
Specie Result		:	Rabbit No skin irritatio	on

. Result



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ersion 2	Revision Date: 20.11.2023		9S Number: 1070-00025	Date of last issue: 30.09.2023 Date of first issue: 10.12.2015
Sodiu	um n-dodecyl sulfate	e:		
Spec		:	Rabbit	
Resu	lt	:	Skin irritation	
	ous eye damage/eye lassified based on av			
Com	ponents:			
Starc	:h:			
Spec		:	Rabbit	
Resu	lt	:	No eye irritation	
Glyce	erine:			
Spec		:	Rabbit	
Resu	It	•	No eye irritation	
Flura	laner:			
Spec		:	Rabbit	
Resu	π	÷	Mild eye irritatio	n
Sodiu	um n-dodecyl sulfate	e:		
Spec		:	Rabbit	
Resu Metho		:	Irreversible effect OECD Test Guid	
-	iratory or skin sens sensitization	itizatio	n	
Not c	lassified based on av	ailable	information.	
-	iratory sensitization lassified based on avail		information.	
Com	ponents:			
Starc	:h:			
Test		:	Maximization Te	est
Route Speci	es of exposure	:	Skin contact Guinea pig	
Resu		:	negative	
Flura	laner:			
Test		:	Maximization Te	est
Route	es of exposure	:	Dermal	
Speci		:	Guinea pig	1
Red	IT	•	INDT 3 CKIN CONCI	

: Not a skin sensitizer.



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	Sodiur	n n-dodecyl sulfate:			
	Test Ty Routes Specie Result Remar	of exposure s	:	Maximization Tes Skin contact Guinea pig negative Based on data fro	t m similar materials
		<b>cell mutagenicity</b> ssified based on availa	able	information.	
	Compo	onents:			
	Starch Genoto	: oxicity in vitro	:	Test Type: Bacter Result: negative	ial reverse mutation assay (AMES)
	Glycer	ine:			
	Genoto	oxicity in vitro	:	Test Type: In vitro Result: negative	mammalian cell gene mutation test
				ial reverse mutation assay (AMES)	
				Test Type: Chrom Result: negative	osome aberration test in vitro
				Test Type: DNA d thesis in mammal Result: negative	amage and repair, unscheduled DNA syn- ian cells (in vitro)
	Sucros	Se:			
	Genoto	oxicity in vitro	:	Test Type: In vitro Result: negative	mammalian cell gene mutation test
	Flurala	aner:			
	Genoto	oxicity in vitro	:	Test Type: Bacter Result: negative	ial reverse mutation assay (AMES)
				Test Type: Mouse Result: negative	Lymphoma
				Test Type: Chrom Result: negative	osomal aberration
	Genoto	oxicity in vivo	:	Test Type: Micron Species: Mouse Cell type: Bone m Application Route Result: negative	arrow

#### Sodium n-dodecyl sulfate:



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	Genoto	oxicity in vitro	:	Test Type: Bacter Method: OECD T Result: negative	rial reverse mutation assay (AMES) est Guideline 471
				Test Type: In vitro Result: negative	o mammalian cell gene mutation test
	Genoto	oxicity in vivo	:	Test Type: Roder Species: Mouse Application Route Result: negative	nt dominant lethal test (germ cell) (in vivo) : Ingestion
	Carcin	ogenicity			
		ssified based on availa	ble	information.	
	Comp	onents:			
	Glycer	ine:			
	Specie		:	Rat	
		ation Route	:	Ingestion	
	Exposi Result	ure time	:	2 Years	
	Result		•	negative	
	Flurala	aner:			
	Carcino ment	ogenicity - Assess-	:	No data available	
	Sodiur	m n-dodecyl sulfate:			
	Specie		:	Rat	
		ation Route	:	Ingestion	
	Metho	ure time	:	2 Years OECD Test Guide	eline 453
	Result		:	negative	
	Remar	ks	:	Based on data fro	om similar materials
	Popro	ductive toxicity			
		cted of damaging the u	nbo	rn child.	
		onents:			
	-				
	Glycer	on fertility		Test Type: Two-d	eneration reproduction toxicity study
	Ellecis	on lening	•	Species: Rat Application Route Result: negative	
	Effects	on fetal development	:	Test Type: Embry Species: Rat Application Route Result: negative	ro-fetal development : Ingestion
	Flurala	aner:			



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	Effects	on fertility	:	General Toxicity F	-		
				Species: Dog Application Route Fertility: NOAEL: Result: No effects development were	75 mg/kg body weight on fertility and early embryonic		
	Effects on fetal development		:	Test Type: Development Species: Rat Application Route: Oral Developmental Toxicity: NOAEL: 100 mg/kg body weight Result: Embryotoxic effects and adverse effects on the offspring were detected only at high maternally toxic doses No teratogenic effects.			
				Result: Skeletal m			
				Test Type: Develo Species: Rabbit Application Route Developmental To Result: Skeletal m	: Dermal pxicity: NOAEL: 100 mg/kg body weight		
	Reproc sessme	ductive toxicity - As- ent	:	Suspected of dam	naging the unborn child.		
	Sodiur	n n-dodecyl sulfate:					
	Effects	on fertility	:	Species: Rat Application Route Method: OECD To Result: negative			
	Effects	on fetal development	:	Species: Rat Application Route Result: negative	o-fetal development : Ingestion on data from similar materials		



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STOT	-single exposure		
Not cl	assified based on av	ailable information.	
STOT	-repeated exposure	)	
Not cl	assified based on av	ailable information.	
Repe	ated dose toxicity		
Produ	uct:		
Speci		: Dog	
LOAE		: 25 mg/kg	
	cation Route sure time	: Oral : 168 d	
Symp		: Vomiting	
Rema			adverse effects were reported
Comp	oonents:		
Starc	h:		
Speci	es	: Rat	
NOAE	EL	: >= 2,000 mg/	kg
	cation Route	: Skin contact	
Expos Metho	sure time	: 28 Days : OECD Test G	Luidolino 410
Metho	Ju	. OECD Test e	
Glyce	erine:		
Speci		: Rat	
		: 0.167 mg/l	
LOAE	cation Route	: 0.622 mg/l : inhalation (du	st/mist/fume)
	sure time	: 13 Weeks	
Speci	es	: Rat	
NOAE		: 8,000 - 10,00	0 mg/kg
	cation Route sure time	: Ingestion : 2 y	
		·	
Speci		: Rabbit	
NOAE	L cation Route	: 5,040 mg/kg : Skin contact	
	sure time	: 45 Weeks	
Flura	laner:		
Speci	es	: Dog	
NOAE	EL	: 1 mg/kg	
	cation Route	: Oral	
	sure time	: 52 Weeks	
Rema	et Organs arks	: Liver : No significant	adverse effects were reported
Speci	es	: Juvenile dog	
LÖAE	E	: 56 - 280 mg/k	<g< td=""></g<>
Applic	cation Route	: Oral	



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	Exposure time Symptoms	:	24 Weeks Diarrhea			
L A E	Species OAEL Application Route Exposure time Farget Organs	:	Rat 400 mg/kg Oral 90 Days Liver, thymus	gland		
N <i>A</i> E T	Species NOAEL Application Route Exposure time Farget Organs Remarks		Rat 500 mg/kg Dermal 90 Days Liver No significan	t adverse effects were reported		
S N A E	Sodium n-dodecyl sulfate: Species NOAEL Application Route Exposure time Remarks		Rat 488 mg/kg Ingestion 90 Days Based on dat	a from similar materials		
۲ <u>(</u> F	Aspiration toxicity Not classified based on availa Components: Fluralaner: Not applicable	ble	information.			
E	Experience with human exp	osu	re			
-	Components:					
5	Fluralaner: Skin contact Eye contact	:		y irritate skin. y cause eye irritation.		
SECT	SECTION 12. ECOLOGICAL INFORMATION					
E	Ecotoxicity					
<u>c</u>	Components:					
	Glycerine: Toxicity to fish	:	LC50 (Oncor Exposure tim	nynchus mykiss (rainbow trout)): 54,000 mg/l e: 96 h		
	oxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphr Exposure tim	ia magna (Water flea)): 1,955 mg/l e: 48 h		
T	oxicity to microorganisms	:	NOEC (Pseu	domonas putida): > 10,000 mg/l		
			13 /	10		



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				Exposure time: 16 h Method: DIN 38 412 Part 8		
	Fluralaner: Toxicity to fish		:	LC50 (Oncorhynchus mykiss (rainbow trout)): > 0.0488 mg/l Exposure time: 96 h Method: OECD Test Guideline 203 Remarks: No toxicity at the limit of solubility.		
		to daphnia and other invertebrates	:	Exposure time: 48 Method: OECD Te		
plants 0.08 mg/l Exposure Method: 0		0.08 mg/l Exposure time: 72 Method: OECD Te				
	Toxicity icity)	v to fish (Chronic tox-	:	Exposure time: 21 Method: OECD Te	ld	
		to daphnia and other invertebrates (Chron- ty)	:	NOEC (Daphnia r Exposure time: 21 Method: OECD Te		
	<b>Sodiun</b> Toxicity	n n-dodecyl sulfate: v to fish	:	LC50 (Pimephales Exposure time: 96	s promelas (fathead minnow)): 29 mg/l 5 h	
		v to daphnia and other invertebrates	:	EC50 (Ceriodaphi Exposure time: 48	nia dubia (water flea)): 5.55 mg/l 3 h	
	Toxicity plants	v to algae/aquatic	:	ErC50 (Desmodes Exposure time: 72	smus subspicatus (green algae)): > 120 mg/l 2 h	
				NOEC (Desmode Exposure time: 72	smus subspicatus (green algae)): 30 mg/l 2 h	
	Toxicity icity)	v to fish (Chronic tox-	:	NOEC (Pimephale mg/l Exposure time: 42	es promelas (fathead minnow)): >= 1.357 2 d	
	aquatic	to daphnia and other invertebrates (Chron-	:	NOEC (Ceriodaph Exposure time: 7	nnia dubia (water flea)): 0.88 mg/l d	
	ic toxici Toxicity	ty) v to microorganisms	:	EC50: 135 mg/l Exposure time: 3	h	



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	Persistence and degradability		ity			
	Components:					
	<b>Glycerine:</b> Biodegradability			Result: Readily biodegradable. Biodegradation: 92 % Exposure time: 30 d Method: OECD Test Guideline 301D		
	Sodium n-dodecyl sulfate: Biodegradability : Result: Readily biodeg Biodegradation: 95 % Exposure time: 28 d Method: OECD Test G		95 % 3 d			
	Bioac	cumulative potential				
	<u>Comp</u>	onents:				
<b>Glycerine:</b> Partition coefficient: n- : log Pow: -1.75 octanol/water		log Pow: -1.75				
		<b>se:</b> on coefficient: n- ol/water	: Pow: < 1			
	Flural Bioaco	aner: cumulation	: Species: Zebrafish Bioconcentration factor (BCF): 79.4 Method: OECD Test Guideline 305		factor (BCF): 79.4	
		on coefficient: n- bl/water	:	log Pow: 4.5		
	Partitic	<b>m n-dodecyl sulfate:</b> on coefficient: n- ol/water	:	log Pow: 0.83		
	Mobili	ty in soil				
	<u>Comp</u>	onents:				
		aner: ution among environ- l compartments	:	log Koc: 4.1		
	Other	adverse effects				
	<u>Comp</u>	onents:				
	Flural Result assess	s of PBT and vPvB	:	This substance is lating and toxic (P	not considered to be persistent, bioaccumu- BT).	



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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 Proper shipping name	÷	UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,			
	•	N.O.S.			
		(Fluralaner)			
Class	:	9			
Packing group Labels	÷	III 9			
Environmentally hazardous	:	yes			
-	•	,00			
IATA-DGR UN/ID No.		UN 3077			
Proper shipping name	:	Environmentally hazardous substance, solid, n.o.s.			
	•	(Fluralaner)			
Class	:	9			
Packing group	:				
Labels	÷	Miscellaneous 956			
Packing instruction (cargo aircraft)	•	900			
Packing instruction (passen-	:	956			
ger aircraft)					
Environmentally hazardous	:	yes			
IMDG-Code					
UN number	:	UN 3077			
Proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,			
		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.					
Domestic regulation					
NOM-002-SCT					
UN number	:	UN 3077			
Proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,			
		N.O.S.			



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Class Packir Labels	ng group	(Fluralaner) : 9 : III : 9		
•	al precautions for u			

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 environmental regulations/legislation specific for the substance or mixture

Federal Law for the control of chemical precursors, : Not applicable essential chemical products and machinery for producing capsules, tablets and pills.

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

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

#### **SECTION 16. OTHER INFORMATION**

Revision Date Date format	-	20.11.2023 dd.mm.yyyy
Full text of other abbrevia	tions	
ACGIH	:	USA. ACGIH Threshold

ACGIH NOM-010-STPS-2014	:	USA. ACGIH Threshold Limit Values (TLV) Mexico. Norm NOM-010-STPS-2014 on Chemicals Polluting the Work Environment - Identification, Assessment and Con- trol - Appendix 1 Occupational Exposure Limits
ACGIH / TWA NOM-010-STPS-2014 / VLE- PPT		8-hour, time-weighted average Time weighted average limit value

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



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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

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 Agency, http://echa.europa.eu/

The information is considered as correct, but not exhaustive, and will be used only as a guide, which is based in the current knowledge of the substance or mixture, and is applicable to proper safety precautions for the product.

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