



Fluralaner Solid Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 04/06/2024
7.0	07/06/2024	401059-00027	Date of first issue: 12/10/2015

SECTION 1. IDENTIFICATION

Product name Other means of identification	-	Fluralaner Solid Formulation Bravecto chew (A011019) 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 MEDIUM DOGS (87861) BRAVECTO 1-MONTH 400 MG FLURALANER CHEWABLE TABLETS FOR LARGE DOGS (87860) BRAVECTO 1-MONTH 45 MG FLURALANER CHEWABLE TABLETS FOR VERY SMALL DOGS (87863) BRAVECTO 1-MONTH 560 MG FLURALANER CHEWABLE TABLETS FOR VERY SMALL DOGS (87859) BRAVECTO 250 MG FLURALANER CHEWABLE TABLETS FOR SMALL DOGS (68872) BRAVECTO 500 MG FLURALANER CHEWABLE TABLETS FOR MEDIUM DOGS (68871)

Manufacturer or supplier's details

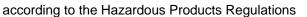
Company name of supplier Address		Merck & Co., Inc 126 E. Lincoln Avenue
Address	•	Rahway, New Jersey U.S.A. 07065
Telephone		908-740-4000
•	-	
Emergency telephone	-	1-908-423-6000
E-mail address	:	EHSDATASTEWARD@merck.com
–		

Recommended use of the chemical and restrictions on use

Recommended use	:	Veterinary product
Restrictions on use	:	Not applicable

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the Hazardous Products Regulations				
Reproductive toxicity	:	Category 2		
GHS label elements				
Hazard pictograms	:			
Signal Word	:	Warning		
-		-		
Hazard Statements	:	H361d Suspected of damaging the unborn child.		





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Preca	autionary Statements	P202 Do not ha	tective gloves, protective clothing, eye protection
		Response: P308 + P313 II	F exposed or concerned: Get medical attention.
		Storage: P405 Store loc	ked up.
		Disposal:	
		P501 Dispose disposal plant.	of contents and container to an approved waste
	tional Labeling	the mixture consists	of ingredient(s) with unknown acute oral toxicity:

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.

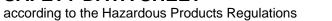
SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	Common Name/Synonym	CAS-No.	Concentration (% w/w)
Starch	Sago starch	9005-25-8	>= 10 - < 25
Glycerine	1,2,3- Propanetriol	56-81-5	>= 5 - <= 10
Sucrose	.alphaD- Glucopyra- noside, .beta D- fructofuranosyl	57-50-1	>= 5 - <= 10
Fluralaner	No data availa- ble	864731-61-3	>= 5 - < 20
Sodium n-dodecyl sulfate	Sulfuric acid monododecyl ester sodium salt	151-21-3	>= 1 - <= 5

SECTION 4. FIRST AID MEASURES





Fluralaner Solid Formulation

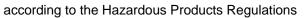
Version 7.0	Revision Date: 07/06/2024	SDS Number: 401059-00027	Date of last issue: 04/06/2024 Date of first issue: 12/10/2015		
General advice		advice imme	of accident or if you feel unwell, seek medical ediately. toms persist or in all cases of doubt seek medical		
lf inh	aled	: If inhaled, re Get medical	emove to fresh air. attention.		
		attention. ng before reuse.			
In ca	se of eye contact		Flush eyes with water as a precaution. Get medical attention if irritation develops and persists.		
lf sw	If swallowed : If swallowed, DO NOT induce vomiting Get medical attention. Rinse mouth thoroughly with water.		attention.		
	important symptoms effects, both acute and ved		of damaging the unborn child.		
	ection of first-aiders	and use the	ponders should pay attention to self-protection, recommended personal protective equipment tential for exposure exists (see section 8).		
Note	s to physician		omatically 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 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- :	e personal protective	equipment.
tive equipment and emer-	low safe handling adv	vice (see section 7) and personal





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gency procedures		prot	ective equipm	nent recommendations (see section 8).
Enviro	onmental precautions	Pre Ret Loc	vent further le ain and dispo	he environment. akage or spillage if safe to do so. se of contaminated wash water. should be advised if significant spillages ned.
Methods and materials for containment and cleaning up		con Loc disp emp dete Sec	tainer for disp al or national bosal of this m bloyed in the c ermine which tions 13 and	uum up spillage and collect in suitable osal. regulations may apply to releases and aterial, as well as those materials and items cleanup of releases. You will need to regulations are applicable. 15 of this SDS provide information regarding ational 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	:	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.
Conditions for safe storage	:	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

Ingredients with workplace control parameters

	Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
I	Starch	9005-25-8	TWA	10 mg/m ³	CA AB OEL
			TWA (Total dust)	10 mg/m³	CA BC OEL
			TWA (respir- able dust fraction)	3 mg/m ³	CA BC OEL
			TWAEV (to-	10 mg/m ³	CA QC OEL



according to the Hazardous Products Regulations

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1		1		tol duot)	1	1
				tal dust) TWA	10 mg/m ³	ACGIH
Glyce	rino	F	56-81-5	TWA (Mist)	10 mg/m ³	CA AB OE
Ciyce		`	00-01-0	TWA (Mist)	10 mg/m ³	CA BC OE
				TWA (Res-	3 mg/m ³	CA BC OE
				pirable mist)	0 mg/m	
				TWAEV	10 mg/m ³	CA QC OE
				(Mist)	. • g,	
Sucro	se	5	57-50-1	TWÁ	10 mg/m ³	CA AB OE
				TWA (Total	10 mg/m ³	CA BC OE
				dust)	°,	
				TWA (respir-	3 mg/m ³	CA BC OE
				able dust	0	
				fraction)		
				TWAEV	10 mg/m ³	CA QC OE
				TWA	10 mg/m ³	ACGIH
Flural	aner	8	364731-61-3	TWA	100 µg/m3 (OEB 2)	Internal
		F	Further inform	ation: Skin		
				Wipe limit	1000 µg/100 cm ²	Internal
	eering measures		compound. All engineerin design and op	g controls shou perated in accor	trols to minimize exp ld be implemented by dance with GMP prin d the environment	/ facility
Perso			compound. All engineerin design and op	g controls shou perated in accor	ld be implemented by	/ facility
	onal protective equip	oment	compound. All engineerin design and op protect produc	g controls shou berated in accor cts, workers, an	ld be implemented by dance with GMP prin d the environment.	/ facility iciples to
		oment	compound. All engineerin design and op protect produc If adequate lo	g controls shou berated in accor cts, workers, an cal exhaust ven	ld be implemented by dance with GMP prin d the environment. tilation is not availab	/ facility iciples to le or
	onal protective equip	oment :	compound. All engineerin design and op protect produc If adequate lo exposure ass	g controls shoul berated in accor cts, workers, an cal exhaust ven essment demon	Id be implemented by dance with GMP prin d the environment. tilation is not availab	/ facility iciples to le or utside the
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SECTION	N 9. PHYSICAL AND CHI	ЕМІС		S
			tablet, pellets	-
Colc	earance		light brown	
Odo			No data available	5
	' r Threshold		No data available	
рН	Theshold		No data available	
	ing point/froozing point	•	No data available	
	ing point/freezing point	·		
Initia	al boiling point and boiling le	:	No data available	2
Flas	h point	:	Not applicable	
Eva	poration rate	:	No data available	9
Flam	nmability (solid, gas)	:	Not classified as	a flammability hazard
Flam	nmability (liquids)	:	No data available	9
	er explosion limit / Upper mability limit	:	No data available	9
	er explosion limit / Lower mability limit	:	No data available	9
Vap	or pressure	:	No data available	9
Rela	tive vapor density	:	No data available	9
Rela	tive density	:	No data available	9
Den	sity	:	No data available	9
	bility(ies) Vater solubility	:	No data available	9
	ition coefficient: n-	:	Not applicable	
	nol/water bignition temperature	:	No data available	9
Dec	omposition temperature	:	No data available	9
	osity /iscosity, kinematic	:	No data available	9
Expl	osive properties	:	Not explosive	



according to the Hazardous Products Regulations

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Oxidiz	ing properties	: The substance	or mixture is not classified as oxidizing.
Particle characteristics Particle size		: No data availat	ble

SECTION 10. STABILITY AND REACTIVITY

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

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Skin contact Ingestion Eye contact

Acute toxicity

Not classified based on available information.

Product:

Acute oral toxicity	:	Acute toxicity estimate: > 2,000 mg/kg
		Method: Calculation method

Components:

Starch:		
Acute oral toxicity	:	LD50 (Rat): > 5,000 mg/kg
Acute dermal toxicity	:	LD50 (Rabbit): > 2,000 mg/kg
Glycerine:		
Acute oral toxicity	:	LD50 (Rat): > 5,000 mg/kg
Acute dermal toxicity	:	LD50 (Guinea pig): > 5,000 mg/kg
Sucrose:		
Acute oral toxicity	:	LD50 (Rat): 29,700 mg/kg
Fluralaner:		
Acute oral toxicity	:	LD50 (Rat): > 2,000 mg/kg Remarks: No mortality observed at this dose. No significant adverse effects were reported



according to the Hazardous Products Regulations

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				00 m m // m
Acute	dermal toxicity	:	LD50 (Rat): > 2,0 Remarks: No sigr	ou mg/kg nificant adverse effects were reported
Sodiu	Im n-dodecyl sulfate:			
	oral toxicity	:	LD50 (Rat): 1,200 Method: OECD T	
Acute	dermal toxicity	:	LD50 (Rat): > 2,0 Method: OECD T Remarks: Based	00 mg/kg est Guideline 402 on data from similar materials
_	corrosion/irritation assified based on availa	able	information.	
Comp	oonents:			
Glyce	erine:			
Speci Resul	es	:	Rabbit No skin irritation	
Flura	laner:			
Speci Resul		:	Rabbit No skin irritation	
Sodiu	Im n-dodecyl sulfate:			
Speci Resul	es	:	Rabbit Skin irritation	
	us eye damage/eye irr assified based on availa			
	oonents:		internation	
Starc	h:			
Speci Resul		:	Rabbit No eye irritation	
Glyce	erine:			
Speci		:	Rabbit	
Resul	t	:	No eye irritation	
Flura	laner:			
Speci Resul		:	Rabbit Mild eye irritation	
Sodiu	ım n-dodecyl sulfate:			
Speci Resul	es	:	Rabbit Irreversible effect	s on the eye



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Metho	bd	: OECD Test G	Guideline 405				
Resp	iratory or skin sens	itization					
-	sensitization lassified based on av	ailable information.					
Respiratory sensitization Not classified based on available information.							
Com	oonents:						
Starc Test ⁻ Route Speci Resu	Type es of exposure ies	: Maximization : Skin contact : Guinea pig : negative	Test				
Flura	laner:						
Test Route Speci Resu	es of exposure les	: Maximization : Dermal : Guinea pig : Not a skin sei					
Sodiu	um n-dodecyl sulfat	e :					
Test Route Speci Resu Rema	es of exposure es It	: Maximization : Skin contact : Guinea pig : negative : Based on dat	Test a from similar materials				
Germ	cell mutagenicity						
	lassified based on av	ailable information.					
	oonents:						
Starc Geno	h: toxicity in vitro	: Test Type: Ba Result: negat	acterial reverse mutation assay (AMES) ive				
Glyce	erine:						
-	toxicity in vitro	: Test Type: In Result: negat	vitro mammalian cell gene mutation test ive				
		Test Type: Ba Result: negat	acterial reverse mutation assay (AMES) ive				
		Test Type: Cl Result: negat	hromosome aberration test in vitro ive				
		Test Type: DI	NA damage and repair, unscheduled DNA sy				
		9/1	0				



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			thesis in mamm Result: negative	alian cells (in vitro) e		
Sucro	ose:					
Geno	toxicity in vitro	:	Test Type: In vi Result: negative	tro mammalian cell gene mutation test		
Fluralaner:						
	toxicity in vitro	:	Test Type: Back Result: negative	terial reverse mutation assay (AMES)		
			Test Type: Mou Result: negative			
			Test Type: Chro Result: negative	omosomal aberration		
Geno	toxicity in vivo	:	Test Type: Micr Species: Mouse Cell type: Bone Application Rou Result: negative	e marrow ite: Oral		
Sodiu	Im n-dodecyl sulfate:	:				
Geno	toxicity in vitro	:		terial reverse mutation assay (AMES) Test Guideline 471 e		
			Test Type: In vi Result: negative	tro mammalian cell gene mutation test		
Geno	toxicity in vivo	:	Test Type: Rod Species: Mouse Application Rou Result: negative	ite: Ingestion		
	nogenicity					
	assified based on avai	ilable	information.			
	oonents:					
Glyce			_			
Speci	es cation Route	:	Rat			
	sure time	•	Ingestion 2 Years			
Resul		:	negative			
Flura	laner:					
Carcir ment	nogenicity - Assess-	:	No data availab	le		



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Sodium n-dodecyl sulfate: Species : Rat Application Route : Ingestion Exposure time : 2 Years Method : OECD Test Guideline 453 Result : negative Remarks : Based on data from similar mately Reproductive toxicity Suspected of damaging the unborn child. Components: Glycerine: Effects on fertility : Test Type: Two-generation repro Species: Rat Application Route: Ingestion Result: negative Effects on fetal development : Test Type: Embryo-fetal develop Species: Rat Application Route: Ingestion Result: negative Fluralaner: Effects on fertility : Effects on fertility : Test Type: Two-generation study	
Species : Rat Application Route : Ingestion Exposure time : 2 Years Method : OECD Test Guideline 453 Result : negative Remarks : Based on data from similar mater Reproductive toxicity Suspected of damaging the unborn child. Components: Glycerine: Effects on fertility : Test Type: Two-generation repro Species: Rat Application Route: Ingestion Result: negative Effects on fetal development : Test Type: Embryo-fetal develop Species: Rat Application Route: Ingestion Result: negative Fluralaner: : Test Type: Embryo-fetal develop	
Suspected of damaging the unborn child. Components: Glycerine: Effects on fertility : Test Type: Two-generation repro Species: Rat Application Route: Ingestion Result: negative Effects on fetal development : Test Type: Embryo-fetal develop Species: Rat Application Route: Ingestion Result: negative Fluralaner:	rials
Glycerine: Effects on fertility : Test Type: Two-generation reprosent Species: Rat Application Route: Ingestion Result: negative Effects on fetal development : Test Type: Embryo-fetal development Species: Rat Application Route: Ingestion Result: negative Effects on fetal development : Test Type: Embryo-fetal development Species: Rat Application Route: Ingestion Result: negative Fluralaner: : Species: Rat Application Route: Ingestion Result: negative	
Effects on fertility : Test Type: Two-generation reprose Species: Rat Application Route: Ingestion Result: negative : Test Type: Embryo-fetal develop Effects on fetal development : Test Type: Embryo-fetal develop Species: Rat Application Route: Ingestion Result: negative : Test Type: Embryo-fetal develop Species: Rat Application Route: Ingestion Result: negative : Result: negative	
Species: Rat Application Route: Ingestion Result: negative Fluralaner:	duction toxicity study
	ment
Effects on fertility : Test Type: Two-generation study	
Species: Rat Application Route: Oral General Toxicity Parent: NOAEL: General Toxicity F1: LOAEL: 100 Result: No effects on fertility., Po neonatal effects.	: 50 mg/kg body weight) mg/kg body weight
Test Type: One-generation repro Species: Dog Application Route: Oral Fertility: NOAEL: 75 mg/kg body Result: No effects on fertility and development were detected. Remarks: No significant adverse	weight early embryonic
Effects on fetal development : Test Type: Development Species: Rat Application Route: Oral Developmental Toxicity: NOAEL: Result: Embryotoxic effects and a offspring were detected only at his No teratogenic effects.	adverse effects on the
Test Type: Development Species: Rabbit Application Route: Oral Developmental Toxicity: NOAEL:	



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				malformations., Visceral malformations. nal toxicity observed.
			Test Type: Deve Species: Rabbit Application Rout Developmental T Result: Skeletal	e: Dermal Foxicity: NOAEL: 100 mg/kg body weight
Repr	oductive toxicity - As- ment	:		maging the unborn child.
Sodi	um n-dodecyl sulfate:			
	ts on fertility	:	Species: Rat Application Rout Method: OECD Result: negative	generation reproduction toxicity study e: Ingestion Test Guideline 416 I on data from similar materials
Effec	ts on fetal development	:	Species: Rat Application Rout Result: negative	ryo-fetal development e: Ingestion I on data from similar materials
Not c STO Not c	T-single exposure classified based on availa T-repeated exposure classified based on availa			
кере	eated dose toxicity			
Expo	ies EL cation Route sure time ptoms	:	Dog 25 mg/kg Oral 168 d Vomiting No significant ad	verse effects were reported
<u>Com</u>	ponents:			
Stard	ch:			
Spec NOA Appli	ies EL cation Route sure time	:	Rat >= 2,000 mg/kg Skin contact 28 Days OECD Test Guid	deline 410
Glyc Spec	erine: ies	:	Rat	





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		: 0.167 mg/l : 0.622 mg/l : inhalation (dus : 13 Weeks	st/mist/fume)
		: Rat : 8,000 - 10,000 : Ingestion : 2 y) mg/kg
		: Rabbit : 5,040 mg/kg : Skin contact : 45 Weeks	
Flura	laner:		
Expos	EL cation Route sure time et Organs	: Dog : 1 mg/kg : Oral : 52 Weeks : Liver : No significant	adverse effects were reported
Speci LOAE Applic Expos Symp	EL cation Route sure time	: Juvenile dog : 56 - 280 mg/kg : Oral : 24 Weeks : Diarrhea	9
Expos		: Rat : 400 mg/kg : Oral : 90 Days : Liver, thymus	gland
Expos	EL cation Route sure time et Organs	: Rat : 500 mg/kg : Dermal : 90 Days : Liver : No significant	adverse effects were reported
Sodiu	um n-dodecyl sulfate:		
Speci NOAE Applic Expos Rema	EL cation Route sure time	: Rat : 488 mg/kg : Ingestion : 90 Days : Based on data	from similar materials
Acnie	ation toxicity		

Aspiration toxicity

Not classified based on available information.



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Com	ponents:			
Flura	alaner:			
	ipplicable			
Expe	erience with human exp	osı	ire	
Com	ponents:			
Flura	alaner:			
	contact	:	Remarks: May irr	
Eye	contact	:	Remarks: May ca	use eye irritation.
SECTION	12. ECOLOGICAL INFO	DRN	IATION	
Ecot	oxicity			
	-			
Com	ponents:			
	erine:			
Toxic	tity to fish	:	LC50 (Oncorhyno Exposure time: 9	hus mykiss (rainbow trout)): 54,000 mg/l ວ h
	tity to daphnia and other tic invertebrates	:	EC50 (Daphnia n Exposure time: 4	nagna (Water flea)): 1,955 mg/l 3 h
Toxic	ity to microorganisms	:	NOEC (Pseudom Exposure time: 10 Method: DIN 38 4	
Flura	alaner:			
	ity to fish	:	Exposure time: 9 Method: OECD T	thus mykiss (rainbow trout)): > 0.0488 mg/l 5 h est Guideline 203 city at the limit of solubility.
	tity to daphnia and other tic invertebrates	:	Exposure time: 4 Method: OECD T	nagna (Water flea)): > 0.015 mg/l 3 h est Guideline 202 city at the limit of solubility.
Toxic plant	sity to algae/aquatic s	:	0.08 mg/l Exposure time: 7: Method: OECD T	
Toxic icity)	to fish (Chronic tox-	:		
Toxic	tity to daphnia and other	:	NOEC (Daphnia	magna (Water flea)): 0.0736 μg/l



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ersion D	Revision Date: 07/06/2024		0S Number: 1059-00027	Date of last issue: 04/06/2024 Date of first issue: 12/10/2015
aquat ic toxi	ic invertebrates (Chron- city)		Exposure time: 2 ⁻ Method: OECD T	
	um n-dodecyl sulfate: ity to fish	:	LC50 (Pimephale Exposure time: 96	s promelas (fathead minnow)): 29 mg/l 5 h
	ity to daphnia and other ic invertebrates	:	EC50 (Ceriodaph Exposure time: 48	nia dubia (water flea)): 5.55 mg/l 3 h
Toxici plants	ity to algae/aquatic	:	ErC50 (Desmode Exposure time: 72	smus subspicatus (green algae)): > 120 mg/ 2 h
			NOEC (Desmode Exposure time: 72	smus subspicatus (green algae)): 30 mg/l 2 h
Toxici icity)	ity to fish (Chronic tox-	:	NOEC (Pimephal mg/l Exposure time: 42	es promelas (fathead minnow)): >= 1.357 2 d
aquat	ity to daphnia and other ic invertebrates (Chron-	:	NOEC (Ceriodapl Exposure time: 7	nnia dubia (water flea)): 0.88 mg/l d
ic tovi				
ic toxi Toxici	ity to microorganisms	:	EC50: 135 mg/l Exposure time: 3	h
Toxici				h
Persi Comp	ity to microorganisms stence and degradabili ponents:			h
Persi Comp Glyce	ity to microorganisms stence and degradabili <u>ponents:</u> erine:		Exposure time: 3	
Persi Comp Glyce	ity to microorganisms stence and degradabili ponents:		Exposure time: 3 Result: Readily bi Biodegradation: 5 Exposure time: 30	odegradable. 92 %
Persi Comp Glyce Biode	ity to microorganisms stence and degradabili <u>conents:</u> gradability		Exposure time: 3 Result: Readily bi Biodegradation: 5 Exposure time: 30	odegradable. 92 % 0 d
Persi Comr Glyce Biode	ity to microorganisms stence and degradabili <u>ponents:</u> erine:		Exposure time: 3 Result: Readily bi Biodegradation: 5 Exposure time: 30	odegradable. 92 % 0 d est Guideline 301D
Persi Comr Glyce Biode	ity to microorganisms stence and degradabili <u>ponents:</u> erine: gradability um n-dodecyl sulfate:		Exposure time: 3 Result: Readily bi Biodegradation: 3 Exposure time: 30 Method: OECD T Result: Readily bi Biodegradation: 3 Exposure time: 23	odegradable. 92 % 0 d est Guideline 301D odegradable. 95 %
Toxici Persi: Comr Glyce Biode	ity to microorganisms stence and degradabili <u>ponents:</u> erine: gradability um n-dodecyl sulfate:		Exposure time: 3 Result: Readily bi Biodegradation: 3 Exposure time: 30 Method: OECD T Result: Readily bi Biodegradation: 3 Exposure time: 23	odegradable. 92 % 0 d est Guideline 301D odegradable. 95 % 3 d
Toxici Persi: Comr Glyce Biode Sodiu Biode	ity to microorganisms stence and degradabili <u>ponents:</u> erine: gradability um n-dodecyl sulfate: gradability		Exposure time: 3 Result: Readily bi Biodegradation: 3 Exposure time: 30 Method: OECD T Result: Readily bi Biodegradation: 3 Exposure time: 23	odegradable. 92 % 0 d est Guideline 301D odegradable. 95 % 3 d
Toxici Persi: Comr Glyce Biode Biode Biode	ity to microorganisms stence and degradabili <u>ponents:</u> erine: gradability um n-dodecyl sulfate: gradability ccumulative potential <u>ponents:</u>		Exposure time: 3 Result: Readily bi Biodegradation: 3 Exposure time: 30 Method: OECD T Result: Readily bi Biodegradation: 3 Exposure time: 23	odegradable. 92 % 0 d est Guideline 301D odegradable. 95 % 3 d
Persi: Comp Glyce Biode Biode Biode Bioac Comp Glyce	ity to microorganisms stence and degradabili <u>ponents:</u> erine: gradability um n-dodecyl sulfate: gradability ccumulative potential <u>ponents:</u>	ity :	Exposure time: 3 Result: Readily bi Biodegradation: 3 Exposure time: 30 Method: OECD T Result: Readily bi Biodegradation: 3 Exposure time: 23	odegradable. 92 % 0 d est Guideline 301D odegradable. 95 % 3 d
Persi: Comp Glyce Biode Biode Biode Bioac Comp Glyce	ity to microorganisms stence and degradabili ponents: prine: gradability um n-dodecyl sulfate: gradability ccumulative potential ponents: erine: on coefficient: n- ol/water	ity :	Exposure time: 3 Result: Readily bi Biodegradation: 3 Method: OECD T Result: Readily bi Biodegradation: 9 Exposure time: 28 Method: OECD T	odegradable. 92 % 0 d est Guideline 301D odegradable. 95 % 3 d



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octano	l/water			
Flurala	aner:			
Bioacc	cumulation	:		h factor (BCF): 79.4 est Guideline 305
Partitic octano	on coefficient: n- I/water	:	log Pow: 4.5	
Sodiu	m n-dodecyl sulfate:			
Partitic octano	on coefficient: n- I/water	:	log Pow: 0.83	
Mobili	ty in soil			
Comp	onents:			
Flurala	aner:			
	ution among environ-	:	log Koc: 4.1	
Other	adverse effects			
Comp	onents:			
Flurala	aner:			
	s of PBT and vPvB	:	Substance is not	persistent, bioaccumulative, and toxic (PBT).

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 3077
Proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Fluralaner)
Class	:	9
Packing group	:	III
Labels	:	9
Environmentally hazardous	:	yes
IATA-DGR UN/ID No.	:	UN 3077



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Proper shipping name		:	Environmentally ł (Fluralaner)	nazardous substance, solid, n.o.s.
Class		:	9	
Packi	ng group	:		
Label	S	:	Miscellaneous	
	Packing instruction (cargo aircraft)		956	
	Packing instruction (passen- ger aircraft) Environmentally hazardous		956	
Enviro			yes	
IMDG	-Code			
UN nu	UN number		UN 3077	
Prope	er shipping name	:	ENVIRONMENTA N.O.S. (Fluralaner)	ALLY HAZARDOUS SUBSTANCE, SOLID,
Class		:	9	
Packi	ng group	:	III	
Label		:	9	
EmS		:	F-A, S-F	
Marin	e 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 Proper shipping name	:	UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Fluralaner)
Class	:	9
Packing group	:	III
Labels	:	9
ERG Code	:	171
Marine pollutant	:	yes(Fluralaner)

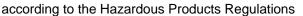
Special precautions for user

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





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SECTION 16. OTHER INFORMATION

Full text of other abbreviations

ACGIH CA AB OEL	:	USA. ACGIH Threshold Limit Values (TLV) Canada. Alberta, Occupational Health and Safety Code (table 2: OEL)
CA BC OEL CA QC OEL	:	Canada. British Columbia OEL Québec. Regulation respecting occupational health and safe- ty, Schedule 1, Part 1: Permissible exposure values for air- borne contaminants
ACGIH / TWA CA AB OEL / TWA CA BC OEL / TWA CA QC OEL / TWAEV	:	8-hour, time-weighted average 8-hour Occupational exposure limit 8-hour time weighted average Time-weighted average exposure 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 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 Agen- cy, http://echa.europa.eu/
Revision Date Date format	-	07/06/2024 mm/dd/yyyy



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

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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