

Version 7.0	Revision Date: 06.07.2024		S Number: 99464-00021	Date of last issue: 06.04.2024 Date of first issue: 21.05.2017			
SECTION	1. IDENTIFICATION						
Produ	uct name	:	Fluralaner (Cat	tle Pour-On) Formulation			
Othe	r means of identification	:	EXZOLT POUR	R-ON FOR CATTLE (92557)			
	ufacturer or supplier's o	deta	ils MSD				
	Company Address		Talcahuano 750, 6th floor, Ciudad Autonoma Buenos Aires, Argentina C1013AAP				
Telep	phone	:	908-740-4000				
Emer	Emergency telephone		1-908-423-6000				
E-ma	E-mail address		EHSDATASTEWARD@msd.com				
Reco	ommended use of the c	hem	ical and restrict	tions on use			
	mmended use rictions on use	:	Veterinary proc Not applicable	luct			
SECTION	2. HAZARDS IDENTIFI	САТ	ION				

GHS Classification Flammable liquids	:	Category 3
Serious eye damage/eye irritation	:	Category 2A
Reproductive toxicity	:	Category 1B
Specific target organ toxicity - single exposure	:	Category 3
Long-term (chronic) aquatic hazard	:	Category 1
GHS label elements		
Hazard pictograms	:	
Signal Word	:	Danger
Hazard Statements	:	H226 Flammable liquid and vapor. H319 Causes serious eye irritation.



/ersion 7.0	Revision Date: 06.07.2024	SDS Number: 1699464-00021	Date of last issue: 06.04.2024 Date of first issue: 21.05.2017
		H360FD May of	se drowsiness or dizziness. damage fertility. May damage the unborn child. ic to aquatic life with long lasting effects.
Preca	autionary Statements	P202 Do not h and understoo P210 Keep aw and other ignit P261 Avoid br P264 Wash sk P271 Use only P273 Avoid re	vay from heat, hot surfaces, sparks, open flames ion sources. No smoking. eathing mist or vapors. in thoroughly after handling. v outdoors or in a well-ventilated area. lease to the environment. otective gloves/ protective clothing/ eye protec-
		ly all contamin P304 + P340 - and keep com doctor if you fe P305 + P351 - for several mir easy to do. Co P308 + P313 I attention.	<ul> <li>P338 IF IN EYES: Rinse cautiously with water nutes. Remove contact lenses, if present and intinue rinsing.</li> <li>F exposed or concerned: Get medical advice/</li> <li>f eye irritation persists: Get medical advice/ at-</li> </ul>
		<b>Storage:</b> P405 Store loc	sked up.
		<b>Disposal:</b> P501 Dispose disposal plant.	of contents/ container to an approved waste
	r <b>hazards which do n</b> e rs may form explosive		ition

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

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
2-Pyrrolidone	616-45-5	>= 30 -< 50
Propan-2-ol	67-63-0	>= 30 -< 50
L-Menthol	2216-51-5	>= 10 -< 20
Fluralaner	864731-61-3	>= 5 -< 10

Hazardous combustion prod- :

Specific extinguishing meth-

ucts

ods



### Fluralaner (Cattle Pour-On) Formulation

Versio 7.0	on	Revision Date: 06.07.2024	-	OS Number: 99464-00021	Date of last issue: 06.04.2024 Date of first issue: 21.05.2017			
SECTI	ION 4	. FIRST AID MEASUR	ES					
G	General advice		:	advice immediate	ident or if you feel unwell, seek medical ly. persist or in all cases of doubt seek medical			
lf	inhale	ed	:	If inhaled, remove Get medical atten				
In	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.				
In	In case of eye contact		:	Thoroughly clean shoes before reuse. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lens, if worn. Get medical attention.				
lf	If swallowed		:	If swallowed, DO NOT induce vomiting. Get medical attention. Rinse mouth thoroughly with water.				
ar de	nd effe elayee	nportant symptoms ects, both acute and d ion of first-aiders	:	Causes serious eye irritation. May cause drowsiness or dizziness. May damage fertility. May damage the unborn child. First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment				
Ν	lotes t	o physician	:	when the potential for exposure exists (see section 8). Treat symptomatically and supportively.				
SECTI	ION 5	. FIRE-FIGHTING ME	ASL	JRES				
0_0								
S	Suitable extinguishing media			Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical				
	Insuita nedia	able extinguishing	:	High volume wate	er jet			
	pecific ghting	c hazards during fire	:	<ul> <li>Do not use a solid water stream as it may scatter and spre fire.</li> <li>Flash back possible over considerable distance.</li> <li>Vapors may form explosive mixtures with air.</li> </ul>				

Special protective equipmentEvacuate area.for fire-fightersIn the event of fire, wear self-contained breathing apparatus.Use personal protective equipment.

Exposure to combustion products may be a hazard to health.

Use extinguishing measures that are appropriate to local cir-

Remove undamaged containers from fire area if it is safe to do

cumstances and the surrounding environment. Use water spray to cool unopened containers.

Carbon oxides

:

SO.

Chlorine compounds Fluorine compounds Nitrogen oxides (NOx)



Version 7.0	Revision Date: 06.07.2024	-	OS Number: 99464-00021	Date of last issue: 06.04.2024 Date of first issue: 21.05.2017
SECTION	6. ACCIDENTAL RELE	AS	E MEASURES	
tive e	onal precautions, protec- quipment and emer- / procedures	:	Follow safe har	rces of ignition. rotective equipment. Idling advice (see section 7) and personal oment recommendations (see section 8).
Envir	onmental precautions	:	Prevent further Prevent spread oil barriers). Retain and disp	o the environment. leakage or spillage if safe to do so. ing over a wide area (e.g., by containment or ose of contaminated wash water. s should be advised if significant spillages ained.
	ods and materials for inment and cleaning up	:	Soak up with in Suppress (know jet. For large spills, containment to can be pumped container. Clean up remai absorbent. Local or nationa disposal of this employed in the determine whic Sections 13 and	bols should be used. ert absorbent material. k down) gases/vapors/mists with a water spra provide diking or other appropriate keep material from spreading. If diked materia , store recovered material in appropriate ning materials from spill with suitable al regulations may apply to releases and material, as well as those materials and items e cleanup of releases. You will need to n 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. If sufficient ventilation is unavailable, use with local exhaust ventilation. Use explosion-proof electrical, ventilating and lighting equip- ment.
Advice on safe handling	:	Do not get on skin or clothing. Avoid breathing mist or vapors. Do not swallow. Do not get in eyes. Wash skin thoroughly after handling. Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure assessment Non-sparking tools should be used. Keep container tightly closed. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take precautionary measures against static discharges.



Version 7.0	Revision Date: 06.07.2024	SDS Number: 1699464-00021	Date of last issue: 06.04.2024 Date of first issue: 21.05.2017				
Condi	tions for safe storage	<ul> <li>Take care to prevent spills, waste and minimize release to the environment.</li> <li>Keep in properly labeled containers. Store locked up. Keep tightly closed. Keep in a cool, well-ventilated place. Store in accordance with the particular national regulations. Keep away from heat and sources of ignition.</li> </ul>					
Materials to avoid		Strong oxidizing Self-reactive sub Organic peroxide Flammable solid Pyrophoric liquid Pyrophoric solids Self-heating sub Substances and flammable gases Explosives Gases	stances and mixtures es s s s stances and mixtures mixtures which in contact with water emit				

#### 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
Propan-2-ol	67-63-0	CMP	400 ppm	AR OEL
		CMP - CPT	500 ppm	AR OEL
		TWA	200 ppm	ACGIH
		STEL	400 ppm	ACGIH
Fluralaner	864731-61-3	TWA	100 μg/m3 (OEB 2)	Internal
	Further information: Skin			
		Wipe limit	1000 µg/100 cm <sup>2</sup>	Internal

#### **Biological occupational exposure limits**

Components	CAS-No.	Control parameters	Biological specimen	Sam- pling time	Permissible concentra- tion	Basis
Propan-2-ol	67-63-0	Acetone	Urine		2 mg/g creatinine	AR BEI
		Acetone	Urine	End of shift at end of work- week	40 mg/l	ACGIH BEI

**Engineering measures** 

: Use appropriate engineering controls and manufacturing technologies to control airborne concentrations (e.g., dripless quick connections).



Version 7.0	Revision Date: 06.07.2024		DS Number: 99464-00021	Date of last issue: 06.04.2024 Date of first issue: 21.05.2017			
			design and opera protect products, Laboratory opera	ontrols should be implemented by facility ted in accordance with GMP principles to workers, and the environment. tions do not require special containment.			
			Use explosion-pro equipment.	oof electrical, ventilating and lighting			
Perso	onal protective equipm	nent					
	Respiratory protection		If adequate local exhaust ventilation is not available or exposure assessment demonstrates exposures outside recommended guidelines, use respiratory protection. Combined particulates and organic vapor type				
	Hand protection						
Ma	Material		Chemical-resistant gloves				
Re	Remarks		Take note that the product is flammable, which may impact the selection of hand protection.				
Eye p	Eye protection		Wear safety glass If the work enviro mists or aerosols Wear a faceshield	ses with side shields or goggles. nment or activity involves dusty conditions, wear the appropriate goggles. d or other full face protection if there is a t contact to the face with dusts, mists, or			
	and body protection ne measures	:	<ul> <li>Work uniform or laboratory coat.</li> <li>If exposure to chemical is likely during typical use, preye flushing systems and safety showers close to the working place.</li> <li>When using do not eat, drink or smoke.</li> <li>Wash contaminated clothing before re-use.</li> <li>The effective operation of a facility should include remension of a facility should include remension of a facility should include remension of a more personal protective equal appropriate degowning and decontamination proced industrial hygiene monitoring, medical surveillance a use of administrative controls.</li> </ul>				

#### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	liquid
Color	:	blue green, clear
Odor	:	mint-like
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	:	25 °C



Vers 7.0	sion	Revision Date: 06.07.2024	SDS Number: 1699464-00021		Date of last issue: 06.04.2024 Date of first issue: 21.05.2017
	Evapor	ation rate	:	No data available	
	Flamm	ability (solid, gas)	:	Not applicable	
	Flamm	ability (liquids)	:	Not applicable	
		explosion limit / Upper bility limit	:	No data available	
		explosion limit / Lower bility limit	:	No data available	
	Vapor <sub>l</sub>	oressure	:	No data available	
	Relativ	e vapor density	:	No data available	
	Relativ	e density	:	No data available	
	Density	/	:	No data available	
	Solubili Wat	ity(ies) er 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	
	Explosi	ve properties	:	Not explosive	
	Oxidizi	ng properties	:	The substance of	mixture is not classified as oxidizing.
	Particle Particle	e characteristics e size	:	Not applicable	

### SECTION 10. STABILITY AND REACTIVITY

Reactivity Chemical stability Possibility of hazardous reac- tions	:	Not classified as a reactivity hazard. Stable under normal conditions. Flammable liquid and vapor. Vapors may form explosive mixture with air. Can react with strong oxidizing agents.
Conditions to avoid Incompatible materials Hazardous decomposition	::	Heat, flames and sparks. Oxidizing agents No hazardous decomposition products are known.



ersion .0	Revision Date: 06.07.2024	-	OS Number: 99464-00021	Date of last issue: 06.04.2024 Date of first issue: 21.05.2017
produ	cts			
ECTION	11. TOXICOLOGICAL	INF	ORMATION	
Inforn expos	nation on likely routes c sure	of :	Inhalation Skin contact Ingestion Eye contact	
	e toxicity assified based on avail	able	information.	
Produ	uct:			
Acute	inhalation toxicity	:	Acute toxicity e Exposure time: Test atmosphe Method: Calcul	re: dust/mist
<u>Com</u>	oonents:			
2-Pyr	rolidone:			
Acute	oral toxicity	:		2.000 mg/kg 9 Test Guideline 401 he substance or mixture has no acute oral tox-
Acute	dermal toxicity	:		> 2.000 mg/kg Test Guideline 402 he substance or mixture has no acute dermal
II Propa	an-2-ol:			
Acute	oral toxicity	:	LD50 (Rat): > 5	5.000 mg/kg
Acute	inhalation toxicity	:	LC50 (Rat): > 2 Exposure time: Test atmosphe	6 h
Acute	dermal toxicity	:	LD50 (Rabbit):	> 5.000 mg/kg
II L-Mei	nthol:			
	inhalation toxicity	:	LC50 (Rat): 5,2 Exposure time: Test atmosphe Method: OECD	4 h
Acute	dermal toxicity	:	LD50 (Rabbit): Method: OECD	> 5.000 mg/kg 9 Test Guideline 402
II Flura	laner:			
	oral toxicity	:		2.000 mg/kg nortality observed at this dose. adverse effects were reported



Version 7.0	Revision Date: 06.07.2024		DS Number: 699464-00021	Date of last issue: 06.04.2024 Date of first issue: 21.05.2017					
Acute	e dermal toxicity	:	LD50 (Rat): > 2.0 Remarks: No sigr	00 mg/kg hificant adverse effects were reported					
	Skin corrosion/irritation Not classified based on available information.								
Com	ponents:								
2-Pyr	rolidone:								
Speci Metho Resu	bd	:	Rabbit OECD Test Guide No skin irritation	eline 404					
Propa	an-2-ol:								
Speci Resu	ies	:	Rabbit No skin irritation						
L-Me	nthol:								
Speci Metho Resu	od	:	Rabbit OECD Test Guide Skin irritation	eline 404					
Flura	laner:								
Speci Resu		:	Rabbit No skin irritation						
	ous eye damage/eye ir es serious eye irritatior		ion						
	ponents:								
	rolidone:								
Speci Resu	ies	:	Rabbit Irritation to eyes,	reversing within 7 days					
Propa	an-2-ol:								
Speci Resu		:	Rabbit Irritation to eyes,	reversing within 21 days					
L-Me	nthol:								
Speci Resu Metho	lt	:	Rabbit Irritation to eyes, OECD Test Guide	reversing within 7 days eline 405					
Flura	laner:								
Speci Resu	ies	:	Rabbit Mild eye irritation						



ersion .0	Revision Date: 06.07.2024	SDS Number: 1699464-00021	Date of last issue: 06.04.2024 Date of first issue: 21.05.2017				
Resp	iratory or skin sensi	tization					
Skin sensitization Not classified based on available information.							
-	piratory sensitization						
_	lassified based on ava						
	ponents:						
2-Pyi Test	r <b>rolidone:</b> Type	· Local lymph r	node assay (LLNA)				
	es of exposure	: Skin contact					
Spec		: Mouse					
Meth Resu		: OECD Test C : negative	Guideline 429				
Rema			a from similar materials				
Prop	an-2-ol:						
Test		: Buehler Test					
	es of exposure	: Skin contact					
Spec		: Guinea pig					
Meth Resu		: OECD Test C : negative	Suideline 406				
I -Me	nthol:	-					
Test		: Local lymph r	node assay (LLNA)				
Route	es of exposure	: Skin contact	()				
Spec		: Mouse					
Meth Resu		: OECD Test C : negative					
Flura	llaner:						
Test	Туре	: Maximization	Test				
Route	es of exposure	: Dermal					
Spec Resu		: Guinea pig : Not a skin se	nsitizer				
Not c <u>Com</u>	n cell mutagenicity lassified based on ava ponents: rrolidone:	ailable information.					
	otoxicity in vitro		acterial reverse mutation assay (AMES)				
		Result: negat	ive				
			vitro mammalian cell gene mutation tes D Test Guideline 476				
		Result: negat Remarks: Ba	ive sed on data from similar materials				
I		Test Type: C	hromosome aberration test in vitro				
		10 / 2	20				



ty in vivo	Resu : Test cytog	d: OECD Test Guideline 473 t: negative Type: Mammalian erythrocyte micronucleus test (in vivo
ty in vivo	cytog	ype: Mammalian erythrocyte micronucleus test (in vivo
	Appli Meth	enetic assay) es: Mouse ation Route: Intraperitoneal injection nd: OECD Test Guideline 474 t: negative
ol.		
		ype: Bacterial reverse mutation assay (AMES) t: negative
		ype: In vitro mammalian cell gene mutation test
ty in vivo	cytog Spec Appli	ype: Mammalian erythrocyte micronucleus test (in vivo enetic assay) es: Mouse ation Route: Intraperitoneal injection t: negative
	Resu	ype: Chromosome aberration test in vitro t: negative rks: Based on data from similar materials
ty in vivo	cytog Spec Appli Meth Resu	Type: Mammalian erythrocyte micronucleus test (in vivo enetic assay) es: Mouse ration Route: Intraperitoneal injection od: OECD Test Guideline 474 t: negative rks: Based on data from similar materials
		ype: Bacterial reverse mutation assay (AMES) t: negative
		ype: Mouse Lymphoma t: negative
		ype: Chromosomal aberration t: negative
ty in vivo	Spec Cell t Appli	ype: Micronucleus test es: Mouse pe: Bone marrow ation Route: Oral t: negative
	ol: ty in vitro ty in vivo : ty in vitro ty in vivo ty in vitro	eli ty in vitro : Test T Result ty in vivo : Test T Result ty in vivo : Test T cytoge Specie Applic Result ty in vitro : Test T Result Rema ty in vivo : Test T cytoge Specie Applic Result Rema ty in vivo : Test T Result Rema ty in vitro : Test T Result Test T Result



rsion	Revision Date: 06.07.2024	SDS Number: 1699464-00021	Date of last issue: 06.04.2024 Date of first issue: 21.05.2017
	nogenicity		
Not cl	assified based on availa	ble information.	
<u>Comp</u>	oonents:		
2-Pyr	rolidone:		
Specie Applic Expos Resul Resul	cation Route sure time t	: Mouse : Ingestion : 18 month(s) : negative : Based on data	a from similar materials
Propa	an-2-ol:		
Specie Applic	es cation Route sure time od	: Rat : inhalation (vap : 104 weeks : OECD Test G : negative	
L-Mer	nthol:		
	cation Route sure time od t	: Mouse : Ingestion : 103 weeks : OECD Test G : negative : Based on data	uideline 453 a from similar materials
Flural	laner:		
Carcir ment	nogenicity - Assess-	: No data availa	ble
May d	oductive toxicity lamage fertility. May dar ponents:	nage the unborn cł	ild.
2-Pvr	rolidone:		
	s on fertility	Species: Rat Application Ro Result: positiv	e-generation reproduction toxicity study oute: Ingestion e ed on data from similar materials
Effect	s on fetal development	: Test Type: En Species: Rat Application Ro Result: positiv	
Repro sessm	eductive toxicity - As- nent	fertility, based	e of adverse effects on sexual function and on animal experiments., Clear evidence of s on development, based on animal

### SAFETY DATA SHEET



Version 7.0	Revision Date: 06.07.2024		99464-00021	Date of last issue: 06.04.2024 Date of first issue: 21.05.2017
Propa	ın-2-ol:			
	s on fertility	:	Test Type: Two-g Species: Rat Application Route Result: negative	eneration reproduction toxicity study : Ingestion
Effect	s on fetal development	:	Test Type: Embry Species: Rat Application Route Result: negative	o-fetal development : Ingestion
L-Mer	athol:			
	s on fetal development	:	Test Type: Embry Species: Rat Application Route Result: negative	o-fetal development : Ingestion
Flural	aner:			
	s on fertility	:	General Toxicity F	
			Species: Dog Application Route Fertility: NOAEL: Result: No effects ment were detected	75 mg/kg body weight on fertility and early embryonic develop-
Effect	s on fetal development	:	Result: Embryoto	: Oral oxicity: NOAEL: 100 mg/kg body weight kic effects and adverse effects on the off- ted only at high maternally toxic doses, No
			Result: Skeletal m	
			Test Type: Develo Species: Rabbit Application Route Developmental To	



/ersion ′.0	Revision Date: 06.07.2024	SDS Number: 1699464-00021	Date of last issue: 06.04.2024 Date of first issue: 21.05.2017
II		Result: Skele	etal malformations.
Repro sessm	oductive toxicity - As- nent	: Suspected of	f damaging the unborn child.
стот	-single exposure		
	ause drowsiness or di	zziness.	
Comp	oonents:		
Prone	an-2-ol:		
Asses		· May cause d	rowsiness or dizziness.
/ 10000	Sinen	. May badde a	
STOT	-repeated exposure		
	assified based on avai	lable information.	
Repe	ated dose toxicity		
-	-		
	oonents:		
	rolidone:		
Speci NOAE		: Rat	
	cation Route	: 207 mg/kg : Ingestion	
	sure time	: 3 Months	
Metho			Guideline 408
Propa	an-2-ol:		
Speci		: Rat	
NOAE		: 12,5 mg/l	
	ation Route	: inhalation (va	apor)
Expos	sure time	: 104 Weeks	
L-Mer	nthol:		
Speci		: Mouse	
NOAE		: 1.250 mg/kg	
Applic	cation Route	: Ingestion	
Expos	sure time	: 91 Days	Guideline 408
Rema			ta from similar materials
Flural	laner:		
Speci		: Dog	
NOAE		: 1 mg/kg	
Applic	ation Route	: Oral	
Expos	sure time	: 52 Weeks	
	t Organs	: Liver	
Rema	irks	: No significan	t adverse effects were reported
Speci	es	: Juvenile dog	
LÒAE	E	: 56 - 280 mg/	kg
		. Oral	
Applic	cation Route sure time	: Oral : 24 Weeks	



Version 7.0	Revision Date: 06.07.2024		0S Number: 99464-00021	Date of last issue: 06.04.2024 Date of first issue: 21.05.2017
Sym	Symptoms		Diarrhea	
LÖA App Exp	ecies AEL dication Route osure time get Organs	:	Rat 400 mg/kg Oral 90 Days Liver, thymus glar	nd
NO/ App Exp Targ	ecies AEL dication Route osure time get Organs narks		Rat 500 mg/kg Dermal 90 Days Liver No significant adv	erse effects were reported
•	<b>biration toxicity</b> classified based on availa	hla	information	
	nponents:	DIE	mornation.	
	r <b>alaner:</b> applicable			
Exp	perience with human exp	osı	ire	
<u>Cor</u>	nponents:			
Skir Eye	ralaner: n contact contact	:	Remarks: May irri Remarks: May ca	
SECTIO	N 12. ECOLOGICAL INFO	JRN	ATION	
Eco	otoxicity			
	nponents:			
	yrrolidone: icity to fish	:	LC50 (Danio rerio Exposure time: 96 Method: OECD Te	
	icity to daphnia and other atic invertebrates	:	EC50 (Daphnia m Exposure time: 48	agna (Water flea)): > 500 mg/l 3 h
Tox plar	icity to algae/aquatic hts	:	ErC50 (Desmode: Exposure time: 72	smus subspicatus (green algae)): > 500 mg/l ? h
			EC10 (Desmodes Exposure time: 72	mus subspicatus (green algae)): 22,2 mg/l ? h
Тох	icity to microorganisms	:	EC50: > 1.000 mg Exposure time: 30 Method: OECD To	) min

### SAFETY DATA SHEET



Version 7.0	Revision Date: 06.07.2024	-	99464-00021	Date of last issue: 06.04.2024 Date of first issue: 21.05.2017
II				
	an-2-ol:			
Toxic	ity to fish	:	LC50 (Pimephales Exposure time: 96	s promelas (fathead minnow)): 9.640 mg/l i h
	ity to daphnia and other tic invertebrates	:	EC50 (Daphnia m Exposure time: 24	agna (Water flea)): > 10.000 mg/l ∙h
Toxic	ity to microorganisms	:	EC50 (Pseudomo Exposure time: 16	nas putida): > 1.050 mg/l i h
L-Me	nthol:			
Toxic	ity to fish	:	Exposure time: 96	(zebra fish)): 15,6 mg/l 5 h 67/548/EEC, Annex V, C.1.
	ity to daphnia and other tic invertebrates	:	Exposure time: 48	agna (Water flea)): 26,6 mg/l h 67/548/EEC, Annex V, C.2.
Toxic plants	ity to algae/aquatic s	:	Exposure time: 72	mus subspicatus (green algae)): 21,4 mg/l : h 67/548/EEC, Annex V, C.3.
			Exposure time: 72	smus subspicatus (green algae)): 9,65 mg/l : h 67/548/EEC, Annex V, C.3.
Toxic	ity to microorganisms	:	EC50: 237 mg/l Exposure time: 96 Test Type: Respir Method: OECD Te	ation inhibition of activated sludge
Flura	laner:			
Toxic	ity to fish	:	Exposure time: 96 Method: OECD Te	
	ity to daphnia and other tic invertebrates	:	Exposure time: 48 Method: OECD Te	
Toxic plants	ity to algae/aquatic s	:	0,08 mg/l Exposure time: 72 Method: OECD Te	
Toxic icity)	ity to fish (Chronic tox-	:	NOEC (Zebrafish) Exposure time: 21 Method: OECD Te	d



Version 7.0	Revision Date: 06.07.2024		99464-00021	Date of last issue: 06.04.2024 Date of first issue: 21.05.2017
I			Remarks: No toxi	city at the limit of solubility.
	ity to daphnia and other ic invertebrates (Chron- icity)	:	NOEC (Daphnia r Exposure time: 21 Method: OECD Te	
M-Factoric	ctor (Chronic aquatic ty)	:	1.000	
Persi	stence and degradabili	ty		
<u>Com</u>	oonents:			
	rolidone: gradability	:	Result: Readily bi Remarks: Based o	odegradable. on data from similar materials
	<b>an-2-ol:</b> gradability	:	Result: rapidly de	gradable
BOD/	COD	:	BOD: 1,19 (BOD5 COD: 2,23 BOD/COD: 53 %	i)
	nthol: egradability	:	Result: Readily bi Biodegradation: 6 Exposure time: 28 Method: OECD Te	64 %
Bioad	ccumulative potential			
Com	oonents:			
2-Pyr	rolidone:			
	ion coefficient: n- ol/water	:	log Pow: -0,71 Method: OECD To	est Guideline 107
Propa	an-2-ol:			
	ion coefficient: n- ol/water	:	log Pow: 0,05	
	nthol:			
Bioac	cumulation	:	Exposure time: 6 Method: OECD Te	factor (BCF): 0,5 - 15 Weeks
	ion coefficient: n- ol/water	:	log Pow: 3,15	
	laner: cumulation	:	Species: Zebrafis	n



Version 7.0	Revision Date: 06.07.2024		DS Number: 699464-00021	Date of last issue: 06.04.2024 Date of first issue: 21.05.2017
				factor (BCF): 79,4 Fest Guideline 305
	ion coefficient: n- ol/water	:	log Pow: 4,5	
Mobi	lity in soil			
Com	ponents:			
Distri	laner: bution among environ- al compartments	:	log Koc: 4,1	
Othe	r adverse effects			
<u>Com</u>	ponents:			
Resu	laner: Its of PBT and vPvB ssment	:	Substance is not	persistent, bioaccumulative, and toxic (PBT).

### SECTION 13. DISPOSAL CONSIDERATIONS

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. Empty containers retain residue and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, or other sources of ignition. They may explode and cause injury and/or death. If not otherwise specified: Dispose of as unused product.

#### SECTION 14. TRANSPORT INFORMATION

#### International Regulations

UNRTDG UN number Proper shipping name II Class Packing group Labels Environmentally hazardous	 UN 1993 FLAMMABLE LIQUID, N.O.S. (Propan-2-ol) 3 III 3 yes
IATA-DGR UN/ID No. Proper shipping name II Class Packing group Labels	 UN 1993 Flammable liquid, n.o.s. (Propan-2-ol) 3 III Flammable Liquids



			S Number: 99464-00021	Date of last issue: 06.04.2024 Date of first issue: 21.05.2017
aircraft)	ruction (cargo ruction (passen-	:	366 355	
IMDG-Code UN number Proper shipp Class Packing grou Labels EmS Code Marine pollu	bing name up		UN 1993 FLAMMABLE LIQ (Propan-2-ol, Flur 3 III 3 F-E, <u>S-E</u> yes	

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

Not applicable for product as supplied.

#### 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 environmental regulations/legislation specific for the substance or mixture

Argentina. Carcinogenic Substances and Agents Registry.	:	Not applicable
Control of precursors and essential chemicals for the preparation of drugs.	:	Propan-2-ol

#### 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	:	06.07.2024
Date format	:	dd.mm.yyyy

#### Further information

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

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



Version	Revision Date:	SDS Number:	Date of last issue: 06.04.2024
7.0	06.07.2024	1699464-00021	Date of first issue: 21.05.2017

#### Full text of other abbreviations

ACGIH ACGIH BEI AR BEI AR OEL	:	USA. ACGIH Threshold Limit Values (TLV) ACGIH - Biological Exposure Indices (BEI) Argentina. Biological Exposure Indices Argentina. Occupational Exposure Limits
ACGIH / TWA ACGIH / STEL AR OEL / CMP AR OEL / CMP - CPT	:	8-hour, time-weighted average Short-term exposure limit TLV (Threshold Limit Value) STEL (Short Term 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 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.