

Vers 1.3	sion	Revision Date: 06.04.2024		S Number: 46422-00004	Date of last issue: 30.09.2023 Date of first issue: 06.09.2022		
SEC	CTION 1 Produc	: IDENTIFICATION t name	:	Florfenicol / Fluni	xin Injection Formulation		
	Manufa	acturer or supplier's c	letai	ls			
	Company		:	Intervet Australia Pty Limited (trading as MSD Animal Health			
	Address		:	91-105 Harpin Street Bendigo 3550, Victoria Austrailia			
	Teleph	one	:	1 800 033 461			
	Emerge	ency telephone number	r:	Poisons Informat	ion Centre: Phone 13 11 26		
	E-mail	address	:	EHSDATASTEW	ARD@msd.com		
	Recom	mended use of the cl mended use tions on use		ical and restrictic Veterinary produc Not applicable			

#### SECTION 2. HAZARDS IDENTIFICATION

GHS Classification		
Acute toxicity (Oral)	÷	Category 4
Acute toxicity (Inhalation)	:	Category 4
Skin corrosion/irritation	:	Category 2
Serious eye damage/eye irri- tation	:	Category 2A
Reproductive toxicity	:	Category 1B
Specific target organ toxicity - single exposure	:	Category 3
Specific target organ toxicity - repeated exposure	:	Category 1 (Liver, Brain, Testis, Spinal cord, Blood, gallblad- der)
Specific target organ toxicity - repeated exposure	:	Category 2 (Gastrointestinal tract, Kidney)

#### **GHS** label elements



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Haza	rd pictograms		!
Signa	al word	: Danger	•
Haza	rd statements	H315 Causes s H319 Causes s H335 May caus H360Df May da fertility. H372 Causes c cord, Blood, ga sure. H373 May caus	Harmful if swallowed or if inhaled. skin irritation. serious eye irritation. se respiratory irritation. amage the unborn child. Suspected of damaging damage to organs (Liver, Brain, Testis, Spinal Ilbladder) through prolonged or repeated expo- se damage to organs (Gastrointestinal tract, n prolonged or repeated exposure.
Preca	autionary statements	<sup>:</sup> Prevention:	
		P202 Do not ha and understood P260 Do not br P264 Wash ski P270 Do not ea P271 Use only	eathe mist or vapours. n thoroughly after handling. at, drink or smoke when using this product. outdoors or in a well-ventilated area. tective gloves/ protective clothing/ eye protec-
		Response:	
		CENTER/ doctor P302 + P352 IF P304 + P340 + and keep comfor doctor if you fee P305 + P351 + for several mini- easy to do. Cor P308 + P313 IF attention. P332 + P313 If tion.	P338 IF IN EYES: Rinse cautiously with water utes. Remove contact lenses, if present and
		<b>Storage:</b> P405 Store loc	ked up.
		<b>Disposal:</b> P501 Dispose o disposal plant.	of contents/ container to an approved waste



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# Other hazards which do not result in classification None known.

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

Substance / Mixture : Mixture

#### Components

Chemical name	CAS-No.	Concentration (% w/w)
Florfenicol	73231-34-2	>= 30 -< 60
N-Methyl-2-pyrrolidone	872-50-4	>= 20 -< 30
Propylene glycol	57-55-6	>= 10 -< 30
1-deoxy-1-(methylamino)-D-glucitol 2-[2-	42461-84-7	>= 1 -< 3
methyl-3-(perfluoromethyl)anilino]nicotinate		
Citric acid	77-92-9	< 10

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

General advice	:	In the case of accident or if you feel unwell, seek medical ad- vice immediately. When symptoms persist or in all cases of doubt seek medical
If inhaled	:	advice. If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.
In case of skin contact	:	Get medical attention. In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.
In case of eye contact	:	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.
If swallowed	:	If swallowed, DO NOT induce vomiting. Get medical attention. Rinse mouth thoroughly with water.
Most important symptoms and effects, both acute and delayed	:	Never give anything by mouth to an unconscious person. Harmful if swallowed or if inhaled. Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation. May damage the unborn child. Suspected of damaging fertili- ty.
Protection of first-aiders	:	Causes damage to organs through prolonged or repeated exposure. First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment



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Note	s to physician	:		al for exposure exists (see section 8). rically and supportively.			
SECTION	5. FIREFIGHTING MEA	SU	RES				
Suita	ble extinguishing media	:	Water spray Alcohol-resistant Carbon dioxide ( Dry chemical				
	itable extinguishing	:	None known.				
medi Spec fighti	ific hazards during fire-	:	Exposure to com	bustion products may be a hazard to health.			
	rdous combustion prod-	:	Carbon oxides Fluorine compounds Nitrogen oxides (NOx)				
Spec ods	ific extinguishing meth-	:	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 firefighters Hazchem Code			In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment. •3Z				
SECTION	6. ACCIDENTAL RELE	AS	E MEASURES				
tive e	onal precautions, protec- equipment and emer- y procedures	:	Follow safe hand	otective equipment. Iling advice (see section 7) and personal pro- It recommendations (see section 8).			
Envir	onmental precautions	:	Prevent spreadin barriers). Retain and dispo	eakage or spillage if safe to do so. Ig over a wide area (e.g. by containment or o use of contaminated wash water. should be advised if significant spillages			
	Methods and materials for containment and cleaning up		Soak up with inert absorbent material. For large spills, provide dyking or other appropriate contain- ment to keep material from spreading. If dyked material can be pumped, store recovered material in appropriate container. Clean up remaining materials from spill with suitable absor- bent. Local or national regulations may apply to releases and dis- posal of this material, as well as those materials and items				

posal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable.

Sections 13 and 15 of this SDS provide information regarding



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		certain local	or national requirements.								
SECTION	SECTION 7. HANDLING AND STORAGE										
Tech	inical measures		ering measures under EXPOSURE /PERSONAL PROTECTION section.								
Loca	I/Total ventilation		rentilation is unavailable, use with local exhaust								
Advi	ce on safe handling	: Do not get o Do not breat Do not swall Do not get ir Wash skin th Handle in ac practice, bas sessment Keep contain Already sens to asthma, a should consi tory irritants Do not eat, co	n eyes. horoughly after handling. cordance with good industrial hygiene and safety sed on the results of the workplace exposure as- ner tightly closed. sitised individuals, and those susceptible llergies, chronic or recurrent respiratory disease, ult their physician regarding working with respira- or sensitisers. drink or smoke when using this product.								
Hygi	ene measures	: If exposure t flushing syst place. When using Wash contar The effective engineering appropriate industrial hyst	o chemical is likely during typical use, provide eye ems and safety showers close to the working do not eat, drink or smoke. minated clothing before re-use. e operation of a facility should include review of controls, proper personal protective equipment, degowning and decontamination procedures, giene monitoring, medical surveillance and the histrative controls.								
Cond	ditions for safe storage	: Keep in prop Store locked Keep tightly Keep in a co	perly labelled containers.								
Mate	erials to avoid		with the following product types:								

#### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Florfenicol	73231-34-2	TWA	100 µg/m3 (OEB 2)	Internal



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N-Methyl-2-pyrrolidone	872-50-4	TWA	25 ppm 103 mg/m3	AU OEL	
	Further inform	nation: Skin abso	rption		
		STEL	75 ppm 309 mg/m3	AU OEL	
	Further inform	nation: Skin abso	rption		
Propylene glycol	57-55-6	TWA (partic- ulate)	10 mg/m3	AU OEL	
		TWA (Total (vapour and particles))	150 ppm 474 mg/m3	AU OEL	
1-deoxy-1-(methylamino)-D- glucitol 2-[2-methyl-3- (perfluorome- thyl)anilino]nicotinate	42461-84-7	TWA	40 µg/m3 (OEB 3)	Internal	
	Further information: Skin				
		Wipe limit	400 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
N-Methyl-2-pyrrolidone	872-50-4	5-Hydroxy- N-methyl-2- pyrrolidone	Urine	End of shift (As soon as possible after exposure ceases)	100 mg/l	ACGIH BEI
Engineering measures	tec less All des pro Col are the tair	e appropriate e hnologies to co s quick connect engineering co sign and opera tect products, ntainment tech required to co compound to ment devices) himize open ha	ontrol airborr ctions). ontrols shoul ted in accord workers, and nologies sui ontrol at sour uncontrolled	he concentr d be implen dance with d the enviro table for co rce and to p	ations (e.g., d nented by faci GMP principle nment. ntrolling comp revent migration	rip- lity s to ounds on of
Personal protective equ	ipment					
Respiratory protection Filter type Hand protection	sur om	dequate local e assessment mended guide mbined particu	demonstrate lines, use re	es exposure spiratory pr	es outside the otection.	
Material	: Ch	emical-resistar	nt gloves			
Remarks	: Co	nsider double (	gloving.			



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	Eye pro	otection Id body protection	:	If the work environ mists or aerosols, Wear a faceshield potential for direct aerosols. Work uniform or la Additional body gi task being perform posable suits) to a	arments should be used based upon the ned (e.g., sleevelets, apron, gauntlets, dis- avoid exposed skin surfaces. degowning techniques to remove potentially
SEC	TION 9	. PHYSICAL AND CHI	EMIC	CAL PROPERTIES	S
	Appear	ance	:	liquid	
	Colour		:	light yellow	
				Straw-coloured	
	Odour		:	No data available	9
	Odour <sup>-</sup>	Threshold	:	No data available	9
	pН		:	No data available	9
	Melting	point/freezing point	:	No data available	e
	Initial b range	oiling point and boiling	:	No data available	2
	Flash p	oint	:	No data available	9
	Evapor	ation rate	:	No data available	9
	Flamma	ability (solid, gas)	:	Not applicable	
	Flamma	ability (liquids)	:	No data available	9

Upper explosion limit / Upper : No data available flammability limit Lower explosion limit / Lower : No data available flammability limit Vapour pressure No data available : Relative vapour density No data available : Relative density No data available 2 Density 2 No data available



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	bility(ies) /ater solubility	:	No data availabl	e
	ion coefficient: n- nol/water	:	Not applicable	
00101	ignition temperature	:	No data availabl	e
Deco	mposition temperature	:	No data availabl	e
Visco Vi	osity scosity, kinematic	:	No data availabl	e
Explo	osive properties	:	Not explosive	
Oxidi	zing properties	:	The substance c	or mixture is not classified as oxidizing.
Mole	cular weight	:	No data availabl	e
	cle characteristics cle 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. 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

Exposure routes	:	Inhalation Skin contact Ingestion Eye contact
Acute toxicity Harmful if swallowed or if inh	naled	
Product:		
Acute oral toxicity	:	Acute toxicity estimate: 1,935 mg/kg Method: Calculation method
Acute inhalation toxicity	:	Acute toxicity estimate: 1.86 mg/l Exposure time: 4 h Test atmosphere: dust/mist



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			Method: Calculati	on method
Comp	oonents:			
Florfe	enicol:			
Acute	oral toxicity	:	LD50 (Rat): > 2,0	00 mg/kg
			LD50 (Mouse): >	2,000 mg/kg
			LD50 (Dog): > 1,2	280 mg/kg
Acute	inhalation toxicity	:	LC50 (Rat): > 0.2 Exposure time: 4	
Acute	dermal toxicity	:	Remarks: No data	a available
	toxicity (other routes of istration)	:	LD50 (Rat): 1,913 Application Route	
			LD50 (Mouse): 10 Application Route	
N-Met	thyl-2-pyrrolidone:			
	oral toxicity	:	LD50 (Rat): 4,150	) mg/kg
Acute	inhalation toxicity	:	LC50 (Rat): > 5.1 Exposure time: 4 Test atmosphere: Method: OECD T	h
Acute	dermal toxicity	:	LD50 (Rat): > 5,0	00 mg/kg
Propy	/lene glycol:			
	oral toxicity	:	LD50 (Rat): 22,00	)0 mg/kg
Acute	inhalation toxicity	:	LC50 (Rat): > 44. Exposure time: 4 Test atmosphere:	h
Acute	dermal toxicity	:	LD50 (Rabbit): > Assessment: The toxicity	2,000 mg/kg substance or mixture has no acute dermal
	• • • •	glu :		3-(perfluoromethyl)anilino]nicotinate:
Acute	oral toxicity	·	LD50 (Rat): 53 - 7	
			LD50 (Mouse): 17	76 - 249 mg/kg
			LD50 (Guinea pig	): 488.3 mg/kg



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				LD50 (Monkey): 3	00 mg/kg
	Acute i	nhalation toxicity	:	LC50 (Rat): < 0.52 Exposure time: 4 Test atmosphere:	h
		oxicity (other routes of stration)	:	LD50 (Rat): 59.4 - Application Route	
				LD50 (Mouse): 16 Application Route	
	Citric a	acid			
		oral toxicity	:	LD50 (Mouse): 5,4	400 mg/kg
	Acute c	dermal toxicity	:	LD50 (Rat): > 2,00 Method: OECD Te Assessment: The toxicity	
		orrosion/irritation			
	Compo	onents:			
	Florfer	nicol:			
	Specie: Result	S	:	Rabbit No skin irritation	
	N-Meth	yl-2-pyrrolidone:			
	Result	.j pj. enaener	:	Skin irritation	
	Propyl	ene glycol:			
	Specie		:	Rabbit	
	Methoc Result		:	OECD Test Guide No skin irritation	eline 404
	1-deox	y-1-(methylamino)-D-	glu	citol 2-[2-methyl-3	B-(perfluoromethyl)anilino]nicotinate:
	Specie		:	Rabbit	
	Result		:	Mild skin irritation	
	Citric a	acid:			
	Specie		:	Rabbit	
	Methoo Result	1	:	OECD Test Guide No skin irritation	eline 404
	IVG201		•	INO SVIII IIIIGUOU	



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	ous eye damage/eye		
	es serious eye irritatio	n.	
	ponents:		
	enicol:		
Spec Resu		: Rabbit : Mild eye irritati	on
	thyl-2-pyrrolidone:		
Spec Resu		: Rabbit : Irritation to eye	s, reversing within 21 days
Prop	ylene glycol:		
Spec Resu		: Rabbit	
Meth		: No eye irritatio : OECD Test Gu	
			/l-3-(perfluoromethyl)anilino]nicotinate:
Spec Resu		: Rabbit : Irreversible effe	ects on the eye
Citric	c acid:		
Spec Resu		: Rabbit	a reversing within 21 days
Meth		: OECD Test Gu	s, reversing within 21 days ideline 405
Resp	iratory or skin sensi	tisation	
-	sensitisation lassified based on ava	ailable information	
	piratory sensitisation		
-	lassified based on ava		
Com	ponents:		
Florf	enicol:		
Test		: Maximisation T	est
Spec Resu		: Guinea pig	
Resu	п	: negative	
N-Me	thyl-2-pyrrolidone:		
Test			de assay (LLNA)
Expo Spec	sure routes ies	: Skin contact : Mouse	
Meth	od	: OECD Test Gu	ideline 429
Resu Rema		: negative : Based on data	from similar materials
170116		. Daseu un uala	חסודו שווומו ווומנפוומוש



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Test	<b>ylene glycol:</b> Type sure routes	:	Maximisation Tes	st
Spec Resu		:	Guinea pig negative	
Test Expo Spec	Type sure routes ies ssment	•D-glu	<b>citol 2-[2-methyl-</b> Maximisation Tes Dermal Guinea pig Does not cause s negative	
Chro	nic toxicity			
	n cell mutagenicity lassified based on ava	ailable	information.	
Com	ponents:			
-	enicol: toxicity in vitro	:	Test Type: Bacte Result: negative	rial reverse mutation assay (AMES)
				damage and repair, unscheduled DNA syn- lian cells (in vitro) hepatocytes
				o mammalian cell gene mutation test use lymphoma cells
				nosome aberration test in vitro nese hamster ovary cells
Geno	toxicity in vivo	:	Test Type: Micro Species: Mouse Cell type: Bone n Application Route Result: negative	narrow
N-Me	thyl-2-pyrrolidone:			
Geno	toxicity in vitro	:		rial reverse mutation assay (AMES) est Guideline 471
			Test Type: In vitr	o mammalian cell gene mutation test



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			: OECD Test Guideline 476 negative
		thesis ir	pe: DNA damage and repair, unscheduled DNA syn- n mammalian cells (in vitro) negative
Geno	otoxicity in vivo	cytogen Species Applica Method	pe: Mammalian erythrocyte micronucleus test (in vivo netic assay) s: Mouse tion Route: Ingestion : OECD Test Guideline 474 negative
		cytogen Species Applica Method	pe: Mutagenicity (in vivo mammalian bone-marrow netic test, chromosomal analysis) s: Hamster tion Route: Ingestion : OECD Test Guideline 475 negative
-	ylene glycol:		
Geno	otoxicity in vitro		pe: Bacterial reverse mutation assay (AMES) negative
		Method	pe: Chromosome aberration test in vitro : OECD Test Guideline 473 negative
Geno	otoxicity in vivo	cytogen Species	pe: Mammalian erythrocyte micronucleus test (in vivo netic assay) s: Mouse
			tion Route: Intraperitoneal injection negative
1-de	oxy-1-(methylamino)	D-glucitol 2-[2	2-methyl-3-(perfluoromethyl)anilino]nicotinate:
Geno	otoxicity in vitro		pe: Bacterial reverse mutation assay (AMES) negative
			pe: in vitro assay stem: mouse lymphoma cells positive
			pe: Chromosomal aberration stem: Chinese hamster ovary cells positive
			pe: in vitro assay stem: Escherichia coli positive



sion	Revision Date: 06.04.2024		S Number: 846422-00004	Date of last issue: 30.09.2023 Date of first issue: 06.09.2022
Geno	toxicity in vivo	:	Test Type: Micro Species: Mouse Application Rou Result: negative	te: Oral
	cell mutagenicity - ssment	:	Weight of evider cell mutagen.	nce does not support classification as a ger
Citric	acid:			
Geno	toxicity in vitro	:	Test Type: Bact Result: negative	erial reverse mutation assay (AMES)
			Test Type: in vit Result: positive	ro micronucleus test
			Test Type: Bact Result: negative	erial reverse mutation assay (AMES)
Geno	toxicity in vivo	:		genicity (in vivo mammalian bone-marrow chromosomal analysis)
			Application Rour Result: negative	
Carci	nogenicity			
Not cl	assified based on ava	ilable	Result: negative	
Not cl	• •	ilable	Result: negative	
Not cl <u>Comp</u> Florfe	assified based on ava ponents: enicol:	ilable	Result: negative	
Not cl <u>Comp</u> Florfe Speci	assified based on ava ponents: enicol: es	ilable :	Result: negative	
Not cl Comp Florfe Speci Applic	assified based on ava <u>conents:</u> enicol: es cation Route	ilable :	Result: negative information. Rat oral (gavage)	
Not cl Comp Florfe Speci Applic Expos	assified based on ava <u>conents:</u> enicol: es cation Route sure time	ilable :	Result: negative information. Rat oral (gavage) 2 Years	
Not cl <u>Comp</u> Florfe Speci Applic Expos Resul	assified based on ava <u>conents:</u> enicol: es cation Route sure time	ilable : :	Result: negative information. Rat oral (gavage) 2 Years negative	
Not cl <u>Comp</u> Florfe Speci Applic Expos Resul Targe	assified based on ava <u>conents:</u> enicol: es cation Route sure time t t organs	ilable : : :	Result: negative information. Rat oral (gavage) 2 Years negative Liver, Testes	
Not cl Comp Florfe Speci Applic Expos Resul Targe Speci	assified based on ava <u>conents:</u> es cation Route sure time t ot Organs es	ilable	Result: negative information. Rat oral (gavage) 2 Years negative Liver, Testes Mouse	
Not cl Comp Florfe Speci Applic Expos Resul Targe Speci Applic	assified based on ava <u>conents:</u> es cation Route sure time t ot Organs es cation Route	ilable	Result: negative information. Rat oral (gavage) 2 Years negative Liver, Testes Mouse oral (gavage)	
Not cl Comp Florfe Speci Applic Expos Resul Targe Speci Applic Expos	assified based on ava <u>conents:</u> enicol: es cation Route sure time t of Organs es cation Route sure time	ilable	Result: negative information. Rat oral (gavage) 2 Years negative Liver, Testes Mouse oral (gavage) 2 Years	
Not cl Comp Florfe Speci Applic Expos Resul Targe Speci Applic Expos Resul Resul Resul Targe	assified based on ava <u>conents:</u> enicol: es cation Route sure time t of Organs es cation Route sure time	ilable	Result: negative information. Rat oral (gavage) 2 Years negative Liver, Testes Mouse oral (gavage)	
Not cl Comp Florfe Speci Applic Expos Resul Targe Speci Applic Expos Resul Targe	assified based on ava <u>conents:</u> enicol: es cation Route sure time t of Organs es cation Route sure time t t organs	ilable	Result: negative information. Rat oral (gavage) 2 Years negative Liver, Testes Mouse oral (gavage) 2 Years negative	
Not cl Comp Florfe Speci Applic Expos Resul Targe Speci Applic Expos Resul Targe N-Me	assified based on ava <u>conents:</u> es cation Route sure time t of Organs es cation Route sure time t t Organs thyl-2-pyrrolidone:	ilable : : : : : :	Result: negative information. Rat oral (gavage) 2 Years negative Liver, Testes Mouse oral (gavage) 2 Years negative Testes, Blood	
Not cl Comp Florfe Speci Applic Expos Resul Targe Speci Applic Expos Resul Targe N-Me Speci	assified based on ava <u>conents:</u> es cation Route sure time t of Organs es cation Route sure time t of Organs thyl-2-pyrrolidone: es	ilable	Result: negative information. Rat oral (gavage) 2 Years negative Liver, Testes Mouse oral (gavage) 2 Years negative Testes, Blood Rat	
Not cl Comp Florfe Speci Applic Expos Resul Targe Speci Applic Expos Resul Targe N-Mer Speci Applic	assified based on ava <u>conents:</u> es cation Route sure time t of Organs es cation Route sure time t of Organs thyl-2-pyrrolidone: es cation Route	ilable	Result: negative information. Rat oral (gavage) 2 Years negative Liver, Testes Mouse oral (gavage) 2 Years negative Testes, Blood Rat Ingestion	
Not cl Comp Florfe Speci Applic Expos Resul Targe Speci Applic Expos Resul Targe N-Mer Speci Applic	assified based on ava <u>conents:</u> enicol: es cation Route sure time t ot Organs es cation Route sure time t t ot Organs thyl-2-pyrrolidone: es cation Route sure time t	ilable	Result: negative information. Rat oral (gavage) 2 Years negative Liver, Testes Mouse oral (gavage) 2 Years negative Testes, Blood Rat	
Not cl Comp Florfe Speci Applic Expos Resul Targe Speci Applic Expos Resul Targe N-Me Speci Applic Expos Resul Targe Resul Targe Resul Targe Resul Targe Resul Targe Resul Targe Resul Targe Resul Targe Resul Targe Resul Targe Resul Targe Resul Targe	assified based on ava <u>conents:</u> es cation Route sure time t of Organs es cation Route sure time t of Organs thyl-2-pyrrolidone: es cation Route sure time t of Organs	ilable	Result: negative information. Rat oral (gavage) 2 Years negative Liver, Testes Mouse oral (gavage) 2 Years negative Testes, Blood Rat Ingestion 2 Years	
Not cl Comp Florfe Speci Applic Expos Resul Targe Speci Applic Expos Resul Targe N-Me Speci Applic Expos Resul Targe Speci	assified based on ava <u>conents:</u> es cation Route sure time t of Organs es cation Route sure time t of Organs thyl-2-pyrrolidone: es cation Route sure time t of Organs	ilable	Result: negative information. Rat oral (gavage) 2 Years negative Liver, Testes Mouse oral (gavage) 2 Years negative Testes, Blood Rat Ingestion 2 Years negative	



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Re	sult	: negative	
<b>D</b>			
	pylene glycol:		
	ecies	: Rat	
	blication Route	: Ingestion : 2 Years	
Re		: negative	
1-d	eoxy-1-(methylamino)-	D-glucitol 2-[2-methy	-3-(perfluoromethyl)anilino]nicotinate:
	ecies	: Rat	
	blication Route	: oral (feed)	
	posure time	: 104 w	
	AEL	: 2 mg/kg body w	eight
Re		: negative	
	get Organs	: Gastrointestinal	
Rei	marks	: Significant toxic	ity observed in testing
Spe	ecies	: Mouse	
	blication Route	: oral (feed)	
	osure time	: 97 w	
	AEL	: 0.6 mg/kg body	weight
	sult ract Organa	: negative : Gastrointestinal	tract
	get Organs marks		ity observed in testing
Rei	productive toxicity		
-	y damage the unborn ch	ild. Suspected of dama	ging fertility.
<u>Co</u>	mponents:		
	rfenicol:		
Effe	ects on fertility		generation reproduction toxicity study
		Species: Rat	
		Application Rou	: 12 mg/kg body weight
			ed pup survival, reduced lactation
	ects on foetal develop-		ryo-foetal development
me	nt	Species: Rat	Maternal: NOAEL: 4 mg/kg body weight
			oxicity: LOAEL: 40 mg/kg body weight
			ogenic effects, Fetotoxicity
			ffects were seen only at maternally toxic dos-
		es.	
			ryo-foetal development
		Species: Mouse	
			te: oral (gavage)
			v Maternal: NOAEL: 120 mg/kg body weight oxicity: LOAEL: 40 mg/kg body weight
		Result: Fetotoxi	



sion	Revision Date: 06.04.2024	SDS Number: 10846422-00004	Date of last issue: 30.09.2023 Date of first issue: 06.09.2022
Repro sessr	oductive toxicity - As- nent	fertility, based on	f adverse effects on sexual function and animal experiments., Some evidence of n development, based on animal experi-
	<b>thyl-2-pyrrolidone:</b> ts on fertility	: Test Type: Two-g Species: Rat Application Route Method: OECD T Result: negative	
Effec ment	ts on foetal develop-	: Test Type: Embry Species: Rat Application Route Method: OECD To Result: positive	
		Species: Rat	y/early embryonic development : inhalation (vapour)
		Test Type: Embry Species: Rabbit Application Route Result: positive	o-foetal development : Ingestion
Repro sessr	oductive toxicity - As- nent	: Clear evidence of animal experimen	adverse effects on development, based ots.
Prop	ylene glycol:		
	ts on fertility	: Test Type: Two-g Species: Mouse Application Route Result: negative	eneration reproduction toxicity study : Ingestion
Effect ment	ts on foetal develop-	: Test Type: Embry Species: Mouse Application Route Result: negative	o-foetal development : Ingestion
	oxy-1-(methylamino)-E ts on fertility	: Test Type: Two-g Species: Rat Application Route General Toxicity - Symptoms: No for	Parent: LOAEL: 1 - 1.5 mg/kg body weig



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				ment were detect	ed.
	Effects nent	on foetal develop-	:	Embryo-foetal tox Result: Embryoto:	
				Species: Rabbit Application Route General Toxicity M Embryo-foetal tox Result: Embryotox	ro-foetal development : Oral Maternal: LOAEL: 3 mg/kg body weight icity: NOAEL: 3 mg/kg body weight xic effects and adverse effects on the off- ted only at high maternally toxic doses
c	Citric a	cid:			
	Effects nent	on foetal develop-	:	Test Type: One-g Species: Rat Application Route Result: negative	eneration reproduction toxicity study : Ingestion
		single exposure	on.		
<u>c</u>	Compo	nents:			
Ν	N-Meth	yl-2-pyrrolidone:			
A	Assessi	ment	:	May cause respira	atory irritation.
1	l-deox	y-1-(methylamino)-D	-qlu	citol 2-[2-methyl-3	B-(perfluoromethyl)anilino]nicotinate:
	Assessi		:	May cause respire	
c	Citric a	cid:			
	Assessi		:	May cause respira	atory irritation.
ç	стот -	repeated exposure			
C	• •			Brain, Testis, Spin	al cord, Blood, gallbladder) through pro-
	May car posure.		s (Ga	astrointestinal tract	, Kidney) through prolonged or repeated ex-
<u>c</u>	Compo	nents:			
F	lorfen	icol:			
	Farget ( Assessi	Organs ment	:		s, Spinal cord, Blood, gallbladder o organs through prolonged or repeated



/ersion .3	Revision Date: 06.04.2024	SDS Number: 10846422-00004	Date of last issue: 30.09.2023 Date of first issue: 06.09.2022
		exposure.	
			-3-(perfluoromethyl)anilino]nicotinate:
•	et Organs ssment		tract, Kidney, Blood to organs through prolonged or repeated
Repe	ated dose toxicity		
<u>Com</u>	ponents:		
Florfe	enicol:		
Speci		: Dog	
NOAE Expos	=∟ sure time	: 3 mg/kg : 13 Weeks	
	et Organs	: Liver, Testis, Bra	ain, Spinal cord
Speci		: Mouse	
NOA	=L sure time	: 200 mg/kg : 13 Weeks	
	et Organs	: Liver, Testis	
Speci		: Rat	
NOA	=L sure time	: 30 mg/kg : 13 Weeks	
	et Organs	: Liver, Testis	
Speci		: Dog	
NOAE LOAE		: 3 mg/kg : 12 mg/kg	
	sure time	: 52 Weeks	
Targe	et Organs	: Liver, gallbladde	r
Speci		: Rat	
NOAE LOAE		: 1 mg/kg : 3 mg/kg	
Expo	sure time	: 52 Weeks	
Targe	et Organs	: Testis	
N-Me	thyl-2-pyrrolidone:		
Speci		: Rat, male	
NOAE LOAE		: 169 mg/kg : 433 mg/kg	
Appli	cation Route	: Ingestion	
Expo: Metho	sure time od	: 90 Days : OECD Test Guid	deline 408
Speci NOAI		: Rat : 0.5 mg/l	
LOAE	EL	: 1 mg/l	
Applie	cation Route	: inhalation (dust/	mist/fume)



Exposi			Date of first issue: 06.09.2022
Expos			
	ure time	: 96 Days	
Metho		: OECD Test Gu	ideline 413
Specie	26	: Rabbit	
NOAE		: 826 mg/kg	
LOAEL		: 1,653 mg/kg	
	ation Route	: Skin contact	
	ure time	: 20 Days	
Propy	lene glycol:		
Specie	es	: Rat, male	
NOAE		: >= 1,700 mg/kg	]
Applica	ation Route	: Ingestion	
Expos	ure time	: 2 yr	
1-deo	xy-1-(methylamino)	-D-glucitol 2-[2-methy	rl-3-(perfluoromethyl)anilino]nicotina
Specie	es	: Rat	
NOAE	L	: 2 mg/kg	
LOAEL	L	: < 4 mg/kg	
	ation Route	: Oral	
	ure time	: 6 w	
Target	Organs	: Gastrointestinal	l tract
Specie	es	: Rat	
NOAE	—	: 1 mg/kg	
	ation Route	: Oral	
	ure time	: 1 y	
larget	Organs	: Gastrointestinal	I tract, Kidney
Specie	es	: Monkey	
NOAE		: 15 mg/kg	
	ation Route	: Oral	
	ure time	: 90 d	
Target	Organs	: Gastrointestinal	l tract, Blood
Specie		: Rabbit	
LOAEL		: 80 mg/kg	
	ation Route	: Dermal	
•	ure time	: 21 d	
Sympto	oms	: Severe irritation	1
Specie		: Dog	
LOAEL		: 11 mg/kg	
	ation Route	: Oral	
	ure time	: 9d	l des ed
	Organs	: Gastrointestinal	I tract
Sympto	oms	: Vomiting	
Citric	acid:		
Specie	es	: Rat	



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		: 4,000 mg/kg : 8,000 mg/kg : Ingestion : 10 Days	
Aspi	ration toxicity		
Not c	lassified based on ava	ilable information.	
Expe	rience with human ex	cposure	
<u>Com</u>	ponents:		
N-Me	thyl-2-pyrrolidone:		
Skin	contact	: Symptoms: Sk	in irritation
1-deo	oxy-1-(methylamino)-	D-glucitol 2-[2-meth	yl-3-(perfluoromethyl)anilino]nicotinate:
Inhala			spiratory tract irritation
	contact contact	: Symptoms: Sk : Symptoms: Se	
Inges			strointestinal disturbance, bleeding, hyperten-
SECTION	12. ECOLOGICAL IN	FORMATION	
Ecot	oxicity		
<u>Com</u>	ponents:		
Florf	enicol:		
Toxic	ity to fish	: LC50 (Lepomis Exposure time Method: FDA 4	

LC50 (Oncorhynchus mykiss (rainbow trout)): > 780 mg/l Exposure time: 96 h Method: FDA 4.11

Toxicity to daphnia and other:EC50 (Daphnia magna (Water flea)): > 330 mg/laquatic invertebratesExposure time: 48 hMethod: OECD Test Guideline 202

Toxicity to algae/aquatic plants	:	EC50 (Pseudokirchneriella subcapitata (green algae)): > 2.9 mg/l Exposure time: 14 d Method: FDA 4.01
		NOEC (Pseudokirchneriella subcapitata (green algae)): 2.9 mg/l

Method: FDA 4.01 IC50 (Skeletonema costatum (marine diatom)): 0.0336 mg/l

Exposure time: 14 d



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		Exposure tir Method: ISC	
		NOEC (Ske Exposure tir Method: ISC	
		Exposure tir	na gibba (gibbous duckweed)): 0.76 mg/l ne: 7 d CD Test Guideline 221
		Exposure tir	nna gibba (gibbous duckweed)): 0.39 mg/l ne: 7 d CD Test Guideline 221
		Exposure tir	cula pelliculosa (Freshwater diatom)): 61 mg/l ne: 72 h CD Test Guideline 201
		Exposure tir	icula pelliculosa (Freshwater diatom)): 19 mg/l ne: 72 h CD Test Guideline 201
		Exposure tir	baena flos-aquae): 0.066 mg/l ne: 72 h CD Test Guideline 201
		Exposure tir	baena flos-aquae): 0.051 mg/l ne: 72 h CD Test Guideline 201
Toxic icity)	to fish (Chronic tox-	Exposure tir	ephales promelas (fathead minnow)): 5.5 mg/l ne: 32 d CD Test Guideline 210
	tity to daphnia and other tic invertebrates (Chron- icity)	Exposure tir	hnia magna (Water flea)): 1.5 mg/l ne: 21 d CD Test Guideline 211
N-Me	thyl-2-pyrrolidone:		
	sity to fish	: LC50 (Onco Exposure tir	orhynchus mykiss (rainbow trout)): > 500 mg/l me: 96 h
	ity to daphnia and other tic invertebrates	: EC50 (Daph Exposure tir Method: DIN	
Toxic plant	sity to algae/aquatic s	: ErC50 (Des Exposure tir	modesmus subspicatus (green algae)): 600.5 mg/l ne: 72 h
		EC10 (Desr Exposure tir	nodesmus subspicatus (green algae)): 92.6 mg/l ne: 72 h



Vers 1.3	sion	Revision Date: 06.04.2024	-	S Number: 846422-00004	Date of last issue: 30.09.2023 Date of first issue: 06.09.2022
		y to daphnia and other invertebrates (Chron- ty)	:	NOEC (Daphnia r Exposure time: 21 Method: OECD Te	
	Toxicity	to microorganisms	:	EC50: > 600 mg/l Exposure time: 30 Method: ISO 8192	
	Propyle	ene glycol:			
	Toxicity		:	LC50 (Oncorhync Exposure time: 96	hus mykiss (rainbow trout)): 40,613 mg/l i h
		to daphnia and other invertebrates	:	EC50 (Ceriodaphi Exposure time: 48	nia dubia (water flea)): 18,340 mg/l s h
	Toxicity plants	to algae/aquatic	:	ErC50 (Skeletone Exposure time: 72 Method: OECD Te	
		invertebrates (Chron-	:	NOEC (Ceriodaph Exposure time: 7	nia dubia (water flea)): 13,020 mg/l d
		to microorganisms	:	NOEC (Pseudome Exposure time: 18	onas putida): > 20,000 mg/l h
	1-deox	y-1-(methylamino)-D-	glu	citol 2-[2-methyl-3	-(perfluoromethyl)anilino]nicotinate:
	Toxicity	to fish	:	LC50 (Lepomis m Exposure time: 96 Method: FDA 4.11	
				LC50 (Oncorhync Exposure time: 96 Method: FDA 4.11	
		to daphnia and other invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: FDA 4.08	
	Toxicity plants	to algae/aquatic	:	NOEC (Microcysti Exposure time: 13 Method: FDA 4.01	s aeruginosa (blue-green algae)): 97 mg/l d
				NOEC (Selenastre Exposure time: 12	um capricornutum (green algae)): 96 mg/l : d
	Citric a	icid:			
	Toxicity	r to fish	:	LC50 (Pimephales Exposure time: 96	s promelas (fathead minnow)): > 100 mg/l i h



ersion 3	Revision Date: 06.04.2024	-	9S Number: 846422-00004	Date of last issue: 30.09.2023 Date of first issue: 06.09.2022
	tity to daphnia and othe tic invertebrates	r:	EC50 (Daphnia Exposure time:	magna (Water flea)): 1,535 mg/l 24 h
Persi	Persistence and degradabili			
Com	ponents:			
	ethyl-2-pyrrolidone: egradability	:	Result: Readily Biodegradation: Exposure time: Method: OECD	73 %
•	<b>ylene glycol:</b> egradability	:	Result: Readily Biodegradation: Exposure time: Method: OECD	98.3 %
	oxy-1-(methylamino)-E lity in water	)-glu	<b>citol 2-[2-methy</b> Hydrolysis: 0 %	I-3-(perfluoromethyl)anilino]nicotinat
Olabi				(20 4)
	<b>c acid:</b> egradability	:	Result: Readily Biodegradation: Exposure time: Method: OECD	97 %
Bioa	ccumulative potential			
Com	ponents:			
Partit	<b>enicol:</b> ion coefficient: n- iol/water	:	log Pow: 0.373 pH: 7	
N-Me	thyl-2-pyrrolidone:			
Partit	ion coefficient: n- nol/water	:	log Pow: -0.46 Method: OECD	Test Guideline 107
Prop	ylene glycol:			
Partit	ion coefficient: n- nol/water	:	log Pow: -1.07 Method: Regula	tion (EC) No. 440/2008, Annex, A.8
1-dec	oxy-1-(methylamino)-E	)-glu	citol 2-[2-methy	I-3-(perfluoromethyl)anilino]nicotinat
	ion coefficient: n- nol/water	:	log Pow: 1.34	



Version 1.3	Revision Date: 06.04.2024		S Number: 46422-00004	Date of last issue: 30.09.2023 Date of first issue: 06.09.2022
Partit octan	<b>: acid:</b> ion coefficient: n- iol/water <b>lity in soil</b>	:	log Pow: -1.72	
Com	ponents:			
-	enicol:			
	bution among environ- al compartments	-	Koc: 52 Method: FDA 3.	08
Distri	<b>DXY-1-(methylamino)-D</b> bution among environ- al compartments	-	itol 2-[2-methyl log Koc: 1.92	-3-(perfluoromethyl)anilino]nicotinate:
Othe	r adverse effects ata available			
SECTION	13. DISPOSAL CONSI	DER	ATIONS	
Wast	osal methods e from residues aminated packaging	:	Dispose of in ac Empty container dling site for rec	of waste into sewer. cordance with local regulations. is should be taken to an approved waste han- ycling or disposal. specified: Dispose of as unused product.
SECTION	14. TRANSPORT INFO	ORM/	TION	
Interi	national Regulations			
Prope	umber er shipping name	:	UN 3082 ENVIRONMEN <sup>T</sup> N.O.S. (Florfenicol) 9 III	ALLY HAZARDOUS SUBSTANCE, LIQUID,
Label		:	9 no	
UN/IE	er shipping name	:	UN 3082 Environmentally (Florfenicol) 9	hazardous substance, liquid, n.o.s.
Packi Label Packi	ing group ls ing instruction (cargo	:	9 III Miscellaneous 964	
aircra Packi	Ift) Ing instruction (passen-	:	964	

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#### Florfenicol / Flunixin Injection Formulation

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ger aircraft)			
<b>IMDG-Code</b> UN number Proper shipping name	:	N.O.S.	Y HAZARDOUS SUBSTANCE, LIQUID,
Class Packing group Labels EmS Code Marine pollutant	:	(Florfenicol) 9 III 9 F-A, S-F yes	
Transport in bulk accordin	-		73/78 and the IBC Code
Not applicable for product as	s sup	plied.	
National Regulations			
<b>ADG</b> UN number Proper shipping name	:	UN 3082 ENVIRONMENTALL N.O.S. (Florfenicol)	Y HAZARDOUS SUBSTANCE, LIQUID,
Class Packing group Labels Hazchem Code Environmentally hazardous		9 III 9 •3Z no	
based upon the properties o	s) pro f the fication	unpackaged material ons may vary by mode	formational purposes only, and solely as it is described within this Safety Data of transportation, package sizes, and var-
SECTION 15. REGULATORY IN	IFOR	MATION	
Safety, health and environ ture	men	tal regulations/legisla	ation specific for the substance or mix-
Therapeutic Goods (Poisons Standard) Instrument	6 :		use the original publication to check for c conditions or threshold limits that might al)
Prohibition/Licensing Requir	emei	nts	: There is no applicable prohibition, authorisation and restricted use requirements, including for carcino- gens referred to in Schedule 10 of the model WHS Act and Regula- tions.
The components of this pr	odu	-	following inventories:
AICS	:	not determined	
DSL	:	not determined	



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I	IECSC		:	not determined	
SEC	TION 1	6: ANY OTHER RELE	VAI	NT INFORMATION	I
	Revisio Source	r information n Date s of key data used to e the Safety Data	:		data, data from raw material SDSs, OECD arch results and European Chemicals Agen- ropa.eu/
I	Date fo	rmat	:	dd.mm.yyyy	
/	Full tex ACGIH AU OE		ons : :		al Exposure Indices (BEI) ace Exposure Standards for Airborne Con-
		L / TWA L / STEL	:		rd - time weighted average rd - short term exposure limit
l	Land o Carcino	f Brazil; ASTM - Amer ogen, Mutagen or Re	icar proc	n Society for the To ductive Toxicant; I	s; ANTT - National Agency for Transport by esting of Materials; bw - Body weight; CMR - DIN - Standard of the German Institute for 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



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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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