



Vers 1.3	sion	Revision Date: 06.04.2024		S Number: 43917-00004	Date of last issue: 30.09.2023 Date of first issue: 31.08.2022		
SEC	<b>TION 1</b> Produc	: IDENTIFICATION t name	:	Florfenicol (45%)	Injection Formulation		
	Manufa	acturer or supplier's d	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			
	Emergency telephone number		r:	Poisons Informat	ion Centre: Phone 13 11 26		
	E-mail address		:	EHSDATASTEWARD@msd.com			
Recommended use of the cher Recommended use Restrictions on use				ical and restrictic Veterinary produc Not applicable			

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

GHS Classification 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)
GHS label elements		
Hazard pictograms	:	
Signal word	:	Danger
Hazard statements	:	H315 Causes skin irritation. H319 Causes serious eye irritation. H335 May cause respiratory irritation. H360Df May damage the unborn child. Suspected of damaging



/ersion I.3	Revision Date: 06.04.2024	SDS Number: 10843917-00004	Date of last issue: 30.09.2023 Date of first issue: 31.08.2022
			damage to organs (Liver, Brain, Testis, Spinal Illbladder) through prolonged or repeated expo
Preca	utionary statements	P202 Do not ha and understood P260 Do not b P264 Wash ski P270 Do not ea P271 Use only	reathe mist or vapours. In thoroughly after handling. at, drink or smoke when using this product. outdoors or in a well-ventilated area. otective gloves/ protective clothing/ eye protec-
		P304 + P340 + and keep comf doctor if you fe P305 + P351 + for several min easy to do. Co P308 + P313 II attention. P332 + P313 If tion.	P338 IF IN EYES: Rinse cautiously with wate utes. Remove contact lenses, if present and
		<b>Storage:</b> P405 Store loc <b>Disposal:</b> P501 Dispose	ked up. of contents/ container to an approved waste

#### 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	>= 30 -< 60

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



Versio 1.3	on	Revision Date: 06.04.2024		9S Number: 843917-00004	Date of last issue: 30.09.2023 Date of first issue: 31.08.2022			
G	General advice		:	<ul> <li>In the case of accident or if you feel unwell, seek medical vice immediately.</li> <li>When symptoms persist or in all cases of doubt seek med advice.</li> </ul>				
lf	finhale	ed	:	If inhaled, remove Get medical atten				
In case of skin contact			:	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.				
Ir	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.				
а	Most important symptoms and effects, both acute and delayed		:	Causes skin irrita Causes serious e May cause respira	tion. ye irritation.			
				Causes damage t exposure.	to organs through prolonged or repeated			
Р	Protecti	ion of first-aiders	:	and use the recor	ers should pay attention to self-protection, nmended personal protective equipment al for exposure exists (see section 8).			
N	lotes to	o physician	:					
SECT	ION 5.	FIREFIGHTING MEA	SU	RES				
S	Suitable	e extinguishing media	:	Water spray Alcohol-resistant Carbon dioxide (C Dry chemical				
	Jnsuita nedia	ble extinguishing	:	None known.				
	Specific	hazards during fire-	:	Exposure to com	oustion products may be a hazard to health.			
Н		ous combustion prod-	:	Carbon oxides Nitrogen oxides (l	NOx)			
	Specific ods	e extinguishing meth-	:	cumstances and t Use water spray t	g measures that are appropriate to local cir- the surrounding environment. to cool unopened containers. ged containers from fire area if it is safe to do			

Special protective equipment :

for firefighters

Hazchem Code

Use personal protective equipment.

In the event of fire, wear self-contained breathing apparatus.

Evacuate area.



Version	Revision Date:	SDS Number:	Date of last issue: 30.09.2023
1.3	06.04.2024	10843917-00004	Date of first issue: 31.08.2022

### SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- tive equipment and emer- gency procedures	:	Use personal protective equipment. Follow safe handling advice (see section 7) and personal pro- tective equipment recommendations (see section 8).
Environmental precautions	:	Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Prevent spreading over a wide area (e.g. by containment or oil barriers). Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained.
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 employed in the cleanup of releases. You will need to deter- mine which regulations are applicable. Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.

#### SECTION 7. HANDLING AND STORAGE

Technical measures	: See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.	
Local/Total ventilation	<ul> <li>If sufficient ventilation is unavailable, use with local exha ventilation.</li> </ul>	aust
Advice on safe handling	<ul> <li>Do not get on skin or clothing.</li> <li>Do not breathe mist or vapours.</li> <li>Do not swallow.</li> <li>Do not get in eyes.</li> <li>Wash skin thoroughly after handling.</li> <li>Handle in accordance with good industrial hygiene and practice, based on the results of the workplace exposure sessment</li> <li>Keep container tightly closed.</li> <li>Already sensitised individuals, and those susceptible to asthma, allergies, chronic or recurrent respiratory disc should consult their physician regarding working with re tory irritants or sensitisers.</li> <li>Do not eat, drink or smoke when using this product.</li> <li>Take care to prevent spills, waste and minimize release</li> </ul>	e as- ease, spira-
Hygiene measures	environment. If exposure to chemical is likely during typical use, provi	de eye



Version 1.3	Revision Date: 06.04.2024	SDS Number: 10843917-00004	Date of last issue: 30.09.2023 Date of first issue: 31.08.2022
Condi	tions for safe storage	place. When using do r Wash contamina The effective ope engineering cont appropriate dego industrial hygien use of administra	a and safety showers close to the working not eat, drink or smoke. Ited clothing before re-use. eration of a facility should include review of trols, proper personal protective equipment, owning and decontamination procedures, e monitoring, medical surveillance and the ative controls. labelled containers.
Materi	als to avoid	Keep tightly clos Keep in a cool, v Store in accorda	vell-ventilated place. nce with the particular national regulations. h 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		
N-Methyl-2-pyrrolidone	872-50-4	TWA	25 ppm 103 mg/m3	AU OEL		
	Further information: Skin absorption					
		STEL	75 ppm 309 mg/m3	AU OEL		
	Further information: Skin absorption					

#### **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 : Use appropriate engineering controls and manufacturing technologies to control airborne concentrations (e.g., dripless quick connections). All engineering controls should be implemented by facility design and operated in accordance with GMP principles to protect products, workers, and the environment.



Vers 1.3	ion	Revision Date: 06.04.2024		S Number: 343917-00004	Date of last issue: 30.09.2023 Date of first issue: 31.08.2022				
				Laboratory opera	tions do not require special containment.				
	Persor	nal protective equipm	ent						
		atory protection	:	sure assessment	exhaust ventilation is not available or expo- demonstrates exposures outside the rec- lines, use respiratory protection				
		er type	:	ommended guidelines, use respiratory protection. Combined particulates and organic vapour type					
		protection erial	:	Chemical-resistar	nt gloves				
	Eye protection		:	Wear safety glasses with side shields or goggles. If the work environment or activity involves dusty conditions, mists or aerosols, wear the appropriate goggles. Wear a faceshield or other full face protection if there is a potential for direct contact to the face with dusts, mists, or aerosols.					
	Skin ar	nd body protection	:	Work uniform or I	aboratory coat.				
SEC	TION 9	. PHYSICAL AND CHI	ЕМІС	CAL PROPERTIE	S				
	Appear	rance	:	Aqueous solution	n				
	Colour		:	clear					
	Odour		:	No data available	e				
	Odour	Threshold	:	No data available	e				
	рН		:	No data available	e				
	Melting	point/freezing point	:	No data available	e				
	Initial b range	oiling point and boiling	:	No data available	e				
	Flash p	point	:	No data available	e				
	Evapor	ation rate	:	No data available	e				
	Flamm	ability (solid, gas)	:	Not applicable					
	Flamm	ability (liquids)	:	No data available	e				

Lower explosion limit / Lower:No data availableflammability limit:No data availableVapour pressure:No data availableRelative vapour density:No data available

Upper explosion limit / Upper :

flammability limit

No data available



Version 1.3	Revision Date: 06.04.2024	-	S Number: 343917-00004	Date of last issue: 30.09.2023 Date of first issue: 31.08.2022
Rel	ative density	:	No data available	9
Der	nsity	:	No data available	2
	ubility(ies) Water solubility	:	No data available	9
	tition coefficient: n-	:	Not applicable	
	anol/water o-ignition temperature	:	No data available	9
Dec	composition temperature	:	No data available	e
	cosity Viscosity, kinematic	:	No data available	9
Exp	plosive properties	:	Not explosive	
	di-inc. a roce article			r minture is not closefied on suidining
Uxi	dizing properties	:	The substance o	r mixture is not classified as oxidizing.
Mo	ecular weight	:	No data available	9
	ticle characteristics ticle 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

Not classified based on available information.

#### Components:

#### Florfenicol:



Versio 1.3	n Revision Date: 06.04.2024	-	S Number: 843917-00004	Date of last issue: 30.09.2023 Date of first issue: 31.08.2022
A	cute oral toxicity	:	LD50 (Rat): > 2,00	00 mg/kg
			LD50 (Mouse): > 2	2,000 mg/kg
			LD50 (Dog): > 1,2	80 mg/kg
A	cute inhalation toxicity	:	LC50 (Rat): > 0.28 Exposure time: 4	
A	cute dermal toxicity	:	Remarks: No data	a available
	cute toxicity (other routes of dministration)	:	LD50 (Rat): 1,913 Application Route	
			LD50 (Mouse): 10 Application Route	
	-Methyl-2-pyrrolidone: cute oral toxicity	:	LD50 (Rat): 4,150	mg/kg
A	cute inhalation toxicity	:	LC50 (Rat): > 5.1 Exposure time: 4 I Test atmosphere: Method: OECD Te	h dust/mist
A	cute dermal toxicity	:	LD50 (Rat): > 5,00	00 mg/kg
-	kin corrosion/irritation auses skin irritation.			
<u>c</u>	omponents:			
	orfenicol:			
	pecies esult	:	Rabbit No skin irritation	
	-Methyl-2-pyrrolidone:			
R	esult	:	Skin irritation	
	erious eye damage/eye irri auses serious eye irritation.	tati	on	
<u>c</u>	omponents:			
	orfenicol:			
	pecies esult	:	Rabbit Mild eye irritation	





ersion .3	Revision Date: 06.04.2024	-	DS Number: )843917-00004	Date of last issue: 30.09.2023 Date of first issue: 31.08.2022
N-Me	thyl-2-pyrrolidone:			
Speci Resu		:		s, reversing within 21 days
Resp	iratory or skin sens	itisati	on	
	<b>sensitisation</b> lassified based on av	ailable	information.	
•	iratory sensitisation lassified based on av		information.	
Com	ponents:			
Florfe	enicol:			
Test <sup>-</sup> Speci Resu	les	:	Maximisation Te Guinea pig negative	est
N-Me	thyl-2-pyrrolidone:			
Test Expos Speci Metho Resu Rema	sure routes les od lt		Skin contact Mouse OECD Test Gui negative	de assay (LLNA) deline 429 rom similar materials
Chro	nic toxicity			
	<b>cell mutagenicity</b> lassified based on av	ailable	information.	
<u>Com</u>	oonents:			
Florfe	enicol:			
Geno	toxicity in vitro	:	Test Type: Bact	erial reverse mutation assay (AME

Test Type: DNA damage and repair, unscheduled DNA synthesis in mammalian cells (in vitro) Test system: rat hepatocytes Result: negative

Test Type: In vitro mammalian cell gene mutation test Test system: mouse lymphoma cells Result: negative

Test Type: Chromosome aberration test in vitro Test system: Chinese hamster ovary cells Result: positive



ersion .3	Revision Date: 06.04.2024	SDS Number: 10843917-00004	Date of last issue: 30.09.2023 Date of first issue: 31.08.2022			
Geno	toxicity in vivo	: Test Type: M Species: Mo Cell type: Bo Application F Result: nega	one marrow Route: Oral			
N-Me	thyl-2-pyrrolidone:					
	toxicity in vitro		Bacterial reverse mutation assay (AMES) CD Test Guideline 471 tive			
			n vitro mammalian cell gene mutation test CD Test Guideline 476 tive			
			DNA damage and repair, unscheduled DNA syn- mmalian cells (in vitro) tive			
Geno	toxicity in vivo	cytogenetic a Species: Mo Application F	use Route: Ingestion CD Test Guideline 474			
		cytogenetic t Species: Har Application F	Route: Ingestion CD Test Guideline 475			
	i <b>nogenicity</b> lassified based on ava	ailable information.				
Com	ponents:					
Speci Applio Expos Resu	cation Route sure time	: Rat : oral (gavage : 2 Years : negative : Liver, Testes				
	cation Route sure time	: Mouse : oral (gavage : 2 Years : negative	oral (gavage) 2 Years			

Target Organs

Result





Version 1.3	Revision Date: 06.04.2024		Number: I3917-00004	Date of last issue: 30.09.2023 Date of first issue: 31.08.2022
N-Me	ethyl-2-pyrrolidone:			
Spec			Rat	
	cation Route		ngestion 2 Years	
Resu	sure time It		negative	
Spec	ies	: F	Rat	
	cation Route		nhalation (vapou	ur)
Expo Resu	sure time It		2 Years negative	
Repr	oductive toxicity			
-	damage the unborn ch	ild. Sus	pected of damag	ging fertility.
<u>Com</u>	ponents:			
Florf	enicol:			
Effec	ts on fertility			generation reproduction toxicity study
			Species: Rat Application Rout	e. Oral
		F	ertility: LOAEL:	12 mg/kg body weight
		F	tesult: decrease	ed pup survival, reduced lactation
	ts on foetal develop-			yo-foetal development
ment			Species: Rat General Toxicity	Maternal: NOAEL: 4 mg/kg body weight
		E	Embryo-foetal to	xicity: LOAEL: 40 mg/kg body weight
				ogenic effects, Fetotoxicity fects were seen only at maternally toxic dos-
			eniaiks. The ei S.	
				yo-foetal development
			Species: Mouse	e: oral (gavage)
				Maternal: NOAEL: 120 mg/kg body weight
		E	Embryo-foetal to	xicity: LOAEL: 40 mg/kg body weight
		F	Result: Fetotoxic	sity
-	oductive toxicity - As-			of adverse effects on sexual function and
Sessi	ment			n animal experiments., Some evidence of on development, based on animal experi-
			nents.	
N-Me	ethyl-2-pyrrolidone:			
	ts on fertility	: 1	est Type: Two-	generation reproduction toxicity study
	···· <b>,</b>	5	Species: Rat	
			Application Rout	e: Ingestion Test Guideline 416
			Result: negative	
Effoo	ts on footal dovelop		-	vo-foetal development
Ellec	ts on foetal develop-	. 1	est type. Empl	



	Revision Date: 06.04.2024	SDS Numbe 10843917-0	
ment			on Route: Ingestion OECD Test Guideline 414
		Species:	on Route: inhalation (vapour)
		Species:	on Route: Ingestion
Repro sessn	oductive toxicity - As- nent		idence of adverse effects on development, based o xperiments.
	- single exposure ause respiratory irrita	tion.	
<u>Comp</u>	oonents:		
N-Met	thyl-2-pyrrolidone:		
	, ,,		
	ssment	: May cau	se respiratory irritation.
Asses <b>STOT</b> Cause	- repeated exposure	e (Liver, Brain, Te	se respiratory irritation. estis, Spinal cord, Blood, gallbladder) through pro-
Asses STOT Cause longe	- repeated exposure es damage to organs	e (Liver, Brain, Te	
Asses STOT Cause longe Comp Florfe	- repeated exposure es damage to organs d or repeated exposure conents: enicol:	<b>e</b> (Liver, Brain, Te e.	estis, Spinal cord, Blood, gallbladder) through pro-
Asses STOT Cause longed <u>Comp</u> Florfe Targe	- repeated exposure es damage to organs d or repeated exposure conents:	e (Liver, Brain, Te e. : Liver, Br	estis, Spinal cord, Blood, gallbladder) through pro- ain, Testis, Spinal cord, Blood, gallbladder damage to organs through prolonged or repeated
Asses STOT Cause longed Comp Florfe Asses	- repeated exposure es damage to organs d or repeated exposure conents: enicol: et Organs	e (Liver, Brain, Te e. : Liver, Br : Causes	estis, Spinal cord, Blood, gallbladder) through pro- ain, Testis, Spinal cord, Blood, gallbladder damage to organs through prolonged or repeated
Asses STOT Cause longed Comp Florfe Asses Repe	- repeated exposure es damage to organs d or repeated exposure conents: enicol: et Organs esment	e (Liver, Brain, Te e. : Liver, Br : Causes	estis, Spinal cord, Blood, gallbladder) through pro- ain, Testis, Spinal cord, Blood, gallbladder damage to organs through prolonged or repeated
Asses STOT Cause longed Comp Florfe Asses Repea	- repeated exposure es damage to organs d or repeated exposure conents: enicol: et Organs ssment ated dose toxicity	e (Liver, Brain, Te e. : Liver, Br : Causes	estis, Spinal cord, Blood, gallbladder) through pro- ain, Testis, Spinal cord, Blood, gallbladder damage to organs through prolonged or repeated
Asses STOT Cause longed Comp Florfe Asses Repea Comp Florfe Speci	- repeated exposure es damage to organs d or repeated exposur conents: enicol: et Organs ssment ated dose toxicity conents: enicol: enicol: es	e (Liver, Brain, Te e. : Liver, Br : Causes exposure : Dog	estis, Spinal cord, Blood, gallbladder) through pro- ain, Testis, Spinal cord, Blood, gallbladder damage to organs through prolonged or repeated
Asses STOT Cause longed Comp Florfe Asses Repea Comp Florfe Speci NOAE	<ul> <li>repeated exposure es damage to organs d d or repeated exposure conents:</li> <li>enicol:</li> <li>et Organs ssment</li> </ul>	E (Liver, Brain, Te e. : Liver, Br : Causes exposure : Dog : 3 mg/kg	estis, Spinal cord, Blood, gallbladder) through pro- ain, Testis, Spinal cord, Blood, gallbladder damage to organs through prolonged or repeated e.
Asses STOT Cause longed Comp Florfe Asses Repea Comp Florfe Speci NOAE Expos	- repeated exposure es damage to organs d or repeated exposur conents: enicol: et Organs ssment ated dose toxicity conents: enicol: enicol: es	E (Liver, Brain, Te e. : Liver, Br : Causes exposure : Dog : 3 mg/kg : 13 Week	estis, Spinal cord, Blood, gallbladder) through pro- ain, Testis, Spinal cord, Blood, gallbladder damage to organs through prolonged or repeated e.
Asses STOT Cause longed Comp Florfe Asses Repea Comp Florfe Speci NOAE Expos	<ul> <li>repeated exposure es damage to organs d d or repeated exposure conents:</li> <li>enicol: et Organs ssment</li> <li>ated dose toxicity</li> <li>conents: enicol: es EL sure time et Organs</li> </ul>	E (Liver, Brain, Te e. : Liver, Br : Causes exposure : Dog : 3 mg/kg : 13 Week	estis, Spinal cord, Blood, gallbladder) through pro- ain, Testis, Spinal cord, Blood, gallbladder damage to organs through prolonged or repeated e.
Asses STOT Cause longed Comp Florfe Asses Repea Comp Florfe Speci NOAE Expos Targe	<ul> <li>repeated exposure es damage to organs d or repeated exposure ponents:</li> <li>enicol:</li> <li>et Organs ssment</li> <li>ated dose toxicity</li> <li>ponents:</li> <li>enicol:</li> <li>es</li> <li>EL</li> <li>sure time et Organs</li> <li>es</li> <li>EL</li> <li>sure time et Organs</li> </ul>	E (Liver, Brain, Tere) : Liver, Br : Causes exposure : Dog : 3 mg/kg : 13 Week : Liver, Tere) : Mouse : 200 mg/l	estis, Spinal cord, Blood, gallbladder) through pro- ain, Testis, Spinal cord, Blood, gallbladder damage to organs through prolonged or repeated e.
Asses STOT Cause longed Comp Florfe Asses Repea Comp Florfe Speci NOAE Expos Targe	<ul> <li>repeated exposure es damage to organs d or repeated exposure conents:</li> <li>enicol: et Organs ssment</li> <li>ated dose toxicity</li> <li>conents: enicol: es EL sure time et Organs</li> </ul>	e (Liver, Brain, Te e. : Liver, Br : Causes exposure : Dog : 3 mg/kg : 13 Week : Liver, Te : Mouse	estis, Spinal cord, Blood, gallbladder) through pro- ain, Testis, Spinal cord, Blood, gallbladder damage to organs through prolonged or repeated e.



Versi 1.3	on	Revision Date: 06.04.2024		DS Number: 843917-00004	Date of last issue: 30.09.2023 Date of first issue: 31.08.2022
ç	Specie	s		Rat	
۲ E	NOAEL Exposu		:	30 mg/kg 13 Weeks Liver, Testis	
۲ ا E		-		Dog 3 mg/kg 12 mg/kg 52 Weeks Liver, gallbladder	
۲ ا E	•	-		Rat 1 mg/kg 3 mg/kg 52 Weeks Testis	
r	N-Meth	yl-2-pyrrolidone:			
۲ ا ا		tion Route ure time		Rat, male 169 mg/kg 433 mg/kg Ingestion 90 Days OECD Test Guide	eline 408
۲ ا ا		tion Route ure time		Rat 0.5 mg/l 1 mg/l inhalation (dust/m 96 Days OECD Test Guide	
۲ ا ب		-		Rabbit 826 mg/kg 1,653 mg/kg Skin contact 20 Days	
	-	tion toxicity ssified based on availa	able	information.	
E	Experi	ence with human exp	oosi	ıre	
<u>(</u>	Compo	onents:			
r	N-Meth	yl-2-pyrrolidone:			
	<u>.</u>	when et		0	

: Symptoms: Skin irritation





Version 1.3	Revision Date: 06.04.2024		S Number: 343917-00004	Date of last issue: 30.09.2023 Date of first issue: 31.08.2022
SECTION	12. ECOLOGICAL INFO	ORN	IATION	
Ecote	oxicity			
Com	ponents:			
-	enicol: ity to fish	:	LC50 (Lepomis n Exposure time: 9 Method: FDA 4.1	
			LC50 (Oncorhynd Exposure time: 9 Method: FDA 4.1	
	ity to daphnia and other tic invertebrates	:	Exposure time: 4	nagna (Water flea)): > 330 mg/l 8 h <sup>-</sup> est Guideline 202
Toxic plants	ity to algae/aquatic s	:	EC50 (Pseudokir mg/l Exposure time: 1 Method: FDA 4.0	
			NOEC (Pseudok mg/l Exposure time: 1 Method: FDA 4.0	
			IC50 (Skeletoner Exposure time: 7 Method: ISO 102	
			NOEC (Skeleton Exposure time: 7 Method: ISO 102	
			Exposure time: 7	oba (gibbous duckweed)): 0.76 mg/l d est Guideline 221
			Exposure time: 7	ibba (gibbous duckweed)): 0.39 mg/l d est Guideline 221
			Exposure time: 7	pelliculosa (Freshwater diatom)): 61 mg/l 2 h Fest Guideline 201
			Exposure time: 7	pelliculosa (Freshwater diatom)): 19 mg/l 2 h <sup>-</sup> est Guideline 201



ersion .3	Revision Date: 06.04.2024	-	9S Number: 843917-00004	Date of last issue: 30.09.2023 Date of first issue: 31.08.2022
			Exposure time: 72	flos-aquae): 0.066 mg/l 2 h est Guideline 201
			Exposure time: 7	a flos-aquae): 0.051 mg/l 2 h est Guideline 201
Toxic icity)	ity to fish (Chronic tox-	:	Exposure time: 3	es promelas (fathead minnow)): 5.5 mg/l 2 d est Guideline 210
	ity to daphnia and other ic invertebrates (Chron-	:	Exposure time: 2	magna (Water flea)): 1.5 mg/l 1 d est Guideline 211
N-Me	thyl-2-pyrrolidone:			
	ity to fish	:	LC50 (Oncorhynd Exposure time: 9	chus mykiss (rainbow trout)): > 500 mg/l 6 h
	ity to daphnia and other ic invertebrates	:	EC50 (Daphnia n Exposure time: 2 Method: DIN 384	
Toxic plants	ity to algae/aquatic	:	ErC50 (Desmode Exposure time: 72	smus subspicatus (green algae)): 600.5 mg/ 2 h
			EC10 (Desmodes Exposure time: 72	smus subspicatus (green algae)): 92.6 mg/l 2 h
	ity to daphnia and other ic invertebrates (Chron- city)	:	Exposure time: 2	magna (Water flea)): 12.5 mg/l 1 d est Guideline 211
Toxic	ity to microorganisms	:	EC50: > 600 mg/ Exposure time: 3 Method: ISO 819	0 min
Persi	stence and degradabili	tv		
	oonents:	.,		
	thyl-2-pyrrolidone:			
	gradability	:	Result: Readily b Biodegradation: Exposure time: 20 Method: OECD T	73 %





/ersion .3	Revision Date: 06.04.2024		DS Number: 843917-00004	Date of last issue: 30.09.2023 Date of first issue: 31.08.2022
Bioad	ccumulative potential			
Com	ponents:			
Florfe	enicol:			
	ion coefficient: n- ol/water	:	log Pow: 0.373 pH: 7	
N-Me	thyl-2-pyrrolidone:			
	ion coefficient: n- ol/water	:	log Pow: -0.46 Method: OECD T	est Guideline 107
Mobi	lity in soil			
Com	ponents:			
Florfe	enicol:			
	bution among environ- al compartments	:	Koc: 52 Method: FDA 3.0	8
Othe	r adverse effects			
No da	ata available			

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 han- dling site for recycling or disposal. If not otherwise specified: Dispose of as unused product.

### **SECTION 14. TRANSPORT INFORMATION**

### International Regulations

UNRTDG		
UN number	:	UN 3082
Proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Florfenicol)
Class	:	9
Packing group	:	III
Labels	:	9
Environmentally hazardous	:	yes
IATA-DGR		
UN/ID No.	:	UN 3082
Proper shipping name	:	Environmentally hazardous substance, liquid, n.o.s. (Florfenicol)



Version 1.3	Revision Date: 06.04.2024		DS Number: 843917-00004	Date of last issue: 30.09.2023 Date of first issue: 31.08.2022
Clas		:	9	
	king group	:		
Lab		÷	Miscellaneous	
	king instruction (cargo	:	964	
airc	,		964	
	king instruction (passen- aircraft)	•	904	
	ironmentally hazardous	:	ves	
	G-Code		,	
		•	UN 3082	
	UN number Proper shipping name			ALLY HAZARDOUS SUBSTANCE, LIQUID,
FIU	ber snipping name	•	N.O.S.	LET HAZANDOUS SUBSTANCE, ElQUID,
			(Florfenicol)	
Clas	SS	:	9	
	king group	:		
Lab		:	9	
Em	S Code	:	F-A, S-F	
Mar	ine pollutant	:	yes	
Tra	nsport in bulk according	ı to	Annex II of MARP	OL 73/78 and the IBC Code
	applicable for product as			

Not applicable for product as supplied.

#### **National Regulations**

#### ADG

ADO		
UN number	:	UN 3082
Proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
		N.O.S. (Florfenicol)
Class	:	9
Packing group	:	III
Labels	:	9
Hazchem Code	:	•3Z
Environmentally hazardous	:	yes

#### 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 mix-
ture

Therapeutic Goods (Poisons	:	Schedule 5 (Please use the original publication to check for
Standard) Instrument		specific uses, specific conditions or threshold limits that might
		apply for this chemical)

Prohibition/Licensing Requirements

: There is no applicable prohibition, authorisation and restricted use requirements, including for carcino-

AU OEL / STEL



### Florfenicol (45%) Injection Formulation

Version 1.3	Revision Date: 06.04.2024	SDS Number 10843917-00		
			gens referred to in Schedule 10 of the model WHS Act and Regula-tions.	
The c	components of this pro	oduct are repo	rted in the following inventories:	
AICS		: not deterr	nined	
DSL		: not deterr	nined	
IECS	с	: not deterr	nined	
SECTION 16: ANY OTHER RELEVANT INFORMATION				
Furth	er information			
Sourc	Revision Date : Sources of key data used to : compile the Safety Data Sheet		4 echnical data, data from raw material SDSs, OECD ortal search results and European Chemicals Agen- echa.europa.eu/	
Date	format	: dd.mm.yy	уу	
Full text of other abbreviations				
ACGI AU O	H BEI EL		Biological Exposure Indices (BEI) Workplace Exposure Standards for Airborne Con-	
AU O	EL / TWA	: Exposure	standard - time weighted average	

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 Substanc-

: Exposure standard - short term exposure limit





Version	Revision Date:	SDS Number:	Date of last issue: 30.09.2023
1.3	06.04.2024	10843917-00004	Date of first issue: 31.08.2022

es; (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.

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