

Versi 2.0		Revision Date: 06.04.2024		S Number: 43837-00004	Date of last issue: 30.09.2023 Date of first issue: 31.08.2022
Secti	ion 1: lo	lentification			
I	Product	t identifier	:	Florfenicol (45%)	Injection Formulation
I	Recom	mended use of the ch	nemi	ical and restriction	ons on use
-		nended use ions on use	:	Veterinary produce Not applicable	ct
I	Manufa	cturer or supplier's d	letai	ls	
(Compar	ıy	:	MSD	
/	Address	;	:	50 Tuas West Dr Singapore - Sing	
-	Telepho	ne	:	+1-908-740-4000)
I	Emerge	ncy telephone number	· :	65 6697 2111 (24	4/7/365)
ł	E-mail a	ddress	:	EHSDATASTEW	ARD@msd.com
Secti	ion 2: H	azard identification			
(Classifi	cation of the substar	nce	or mixture	
ŝ	Skin cor	rosion/irritation	:	Category 2	
	Serious tation	eye damage/eye irri-	:	Category 2	
I	Reprodu	uctive 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)
Short-term (acute) aquatic hazard	:	Category 1
Long-term (chronic) aquatic hazard	:	Category 1

GHS Label elements, including precautionary statements



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Hazard p	pictograms		
Signal w	ord	: Danger	
Hazard s	statements	H335 May cau H360Df May o fertility. H372 Causes cord, Blood, g sure.	skin irritation. serious eye irritation. use respiratory irritation. damage the unborn child. Suspected of damagir damage to organs (Liver, Brain, Testis, Spinal gallbladder) through prolonged or repeated expo kic to aquatic life with long lasting effects.
Precautio	onary statements	P202 Do not I and understoo P260 Do not I P264 Wash sl P270 Do not e P271 Use onl P273 Avoid re P280 Wear pr	special instructions before use. handle until all safety precautions have been rea od. breathe mist or vapours. kin thoroughly after handling. eat, drink or smoke when using this product. y outdoors or in a well-ventilated area. elease to the environment. rotective gloves/ protective clothing/ eye protec- ection/ hearing protection.
		P304 + P340 and keep com doctor if you f P305 + P351 for several mi easy to do. Co P308 + P313 attention. P332 + P313 tion.	 + P338 IF IN EYES: Rinse cautiously with water nutes. Remove contact lenses, if present and ontinue rinsing. IF exposed or concerned: Get medical advice/ If skin irritation occurs: Get medical advice/ atternet is a statement of the st
		Storage: P405 Store lo	
		Disposal: P501 Dispose disposal plant	e 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 -< 50
N-Methyl-2-pyrrolidone	872-50-4	>= 30 -< 50

Section 4: First-aid measures

Description of necessary fi	Description of necessary 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 advice.					
If inhaled	:	If inhaled, remove to fresh air. Get medical attention.					
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. Thoroughly clean shoes before reuse.					
In case of eye contact	:						
If swallowed	:	If swallowed, DO NOT induce vomiting. Get medical attention. Rinse mouth thoroughly with water.					
Most important symptoms a	and	effects, both acute and delayed					
Risks	:	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 when the potential for exposure exists (see section 8).					
Indication of any immediate	e me	edical attention and special treatment needed					
Treatment	:	Treat symptomatically and supportively.					



Florfenicol (45%) Injection Formulation

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Section 5: Fire-fighting measures

Extinguishing media Suitable extinguishing media		Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical
Unsuitable extinguishing media	:	None known.
Special hazards arising from	n th	e substance or mixture
Specific hazards during fire- fighting	:	Exposure to combustion products may be a hazard to health.
Hazardous combustion prod- ucts	:	Carbon oxides Nitrogen oxides (NOx)
Special protective actions for	or fi	re-fighters
Special protective equipment for firefighters Specific extinguishing meth- ods	:	In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment. 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.

Section 6: Accidental release measures

• •	uipment and emergency procedures Use personal protective equipment.
	Follow safe handling advice (see section 7) and personal pro- tective equipment recommendations (see section 8).
Environmental precautions	
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 containn	nent and cleaning up
Methods for cleaning up :	





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		mine which r Sections 13	the cleanup of releases. You will need to deter- egulations are applicable. and 15 of this SDS provide information regarding or national requirements.
Section 7	: Handling and stora	ge	
Preca	autions for safe hand	dling	
	nical measures /Total ventilation	CONTROLS	ring measures under EXPOSURE /PERSONAL PROTECTION section. entilation is unavailable, use with local exhaust
LUCal		ventilation.	
	e on safe handling	Do not breat Do not swalk Do not get in Wash skin th Handle in ac practice, bas sessment Keep contair Already sens to asthma, al should consu tory irritants of Do not eat, d Take care to environment.	eyes. oroughly after handling. cordance with good industrial hygiene and safety ed on the results of the workplace exposure as- ner tightly closed. itised individuals, and those susceptible lergies, chronic or recurrent respiratory disease, ilt their physician regarding working with respira- or sensitisers. rink or smoke when using this product. prevent spills, waste and minimize release to the
Hygie	ene measures	flushing syste place. When using wash contan The effective engineering of appropriate of industrial hyg	to chemical is likely during typical use, provide eye ems and safety showers close to the working do not eat, drink or smoke. ninated clothing before re-use. operation of a facility should include review of controls, proper personal protective equipment, legowning and decontamination procedures, giene monitoring, medical surveillance and the istrative controls.
Cond	litions for safe stora	ge, including any ir	ncompatibilities
Cond	itions for safe storage	Store locked Keep tightly Keep in a co	•
Mater	rials to avoid		with the following product types:



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Section 8: Exposure controls/personal protection

Control parameters

Occupational Exposure Limits

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

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

Appropriate engineering control measures	:	Use appropriate engineering controls and manufacturing technologies to control airborne concentrations (e.g., drip- less 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. Laboratory operations do not require special containment.
Individual protection meas	sures,	such as personal protective equipment (PPE)
Eye/face protection	:	Wear safety glasses with side shields or goggles. If the work environment or activity involves dusty conditions,

	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 protection	: Work uniform or laboratory coat.
Respiratory protection	: If adequate local exhaust ventilation is not available or expo- sure assessment demonstrates exposures outside the rec- ommended guidelines, use respiratory protection.
Filter type	: Combined particulates and organic vapour type
Hand protection Material	: Chemical-resistant gloves

Section 9: Physical and chemical properties

Appearance

: Aqueous solution



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	Colour		:	clear	
	Odour		:	No data available	9
	Odour ⁻	Threshold	:	No data available)
	рН		:	No data available)
	Melting	point/freezing point	:	No data available)
	Initial b range	oiling point and boiling	:	No data available	
	Flash p	oint	:	No data available)
	Evapor	ation rate	:	No data available)
	Flamma	ability (solid, gas)	:	Not applicable	
	Flamma	ability (liquids)	:	No data available	
		explosion limit / Upper bility limit	:	No data available	
		explosion limit / Lower bility limit	:	No data available	•
	Vapour	pressure	:	No data available)
	Relative	e vapour density	:	No data available)
	Relative	e density	:	No data available)
	Density	,	:	No data available)
	Solubili Wat	ty(ies) er solubility	:	No data available)
	Partition octanol	n coefficient: n-	:	Not applicable	
		nition temperature	:	No data available	
	Decom	position temperature	:	No data available	
	Viscosi Visc	ty osity, kinematic	:	No data available)
	Explosi	ve properties	:	Not explosive	
	Oxidizir	ng properties	:	The substance of	r mixture is not classified as oxidizing.



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Moleo	cular weight	:	No data available	9
	le characteristics			
	cle size	:	Not applicable	
ection 1	0: Stability and reactivi	ty		
Reac		:		a reactivity hazard.
Possi	nical stability bility of hazardous reac-	:	Stable under nor Can react with st	mal conditions. rong oxidizing agents.
tions Cond	itions to avoid	:	None known.	
	npatible materials	:	Oxidizing agents	
produ	rdous decomposition Icts	•	NO NAZAIQOUS QE	ecomposition products are known.
ection 1	1: Toxicological inform	atio	on	
	nation on likely routes of sure	:	Inhalation Skin contact	
expos			Ingestion	
ехро			Ingestion Eye contact	
Acute	e toxicity	h l a	Eye contact	
Acute Not c	e toxicity lassified based on availa	ble	Eye contact	
Acute Not c <u>Com</u>	e toxicity lassified based on availa ponents:	ble	Eye contact	
Acute Not c <u>Com</u>	e toxicity lassified based on availa ponents: enicol:	ble	Eye contact information.	00 ma/ka
Acute Not c <u>Com</u>	e toxicity lassified based on availa ponents:	ble :	Eye contact information. LD50 (Rat): > 2,0	
Acute Not c <u>Com</u>	e toxicity lassified based on availa ponents: enicol:	ble :	Eye contact information.	
Acute Not c <u>Com</u>	e toxicity lassified based on availa ponents: enicol:	ble :	Eye contact information. LD50 (Rat): > 2,0	2,000 mg/kg
Acute Not c <u>Com</u> Florfe Acute	e toxicity lassified based on availa ponents: enicol:	:	Eye contact information. LD50 (Rat): > 2,0 LD50 (Mouse): >	2,000 mg/kg 280 mg/kg 8 mg/l
Acute Not c Com Florfe Acute	e toxicity lassified based on availa ponents: enicol: e oral toxicity	:	Eye contact information. LD50 (Rat): > 2,0 LD50 (Mouse): > LD50 (Dog): > 1,2 LC50 (Rat): > 0.2	2,000 mg/kg 280 mg/kg 8 mg/l h
Acute Not c <u>Com</u> Florfe Acute Acute Acute	e toxicity lassified based on availa ponents: enicol: e oral toxicity	:	Eye contact information. LD50 (Rat): > 2,0 LD50 (Mouse): > LD50 (Dog): > 1,2 LC50 (Rat): > 0.2 Exposure time: 4 Remarks: No data	2,000 mg/kg 280 mg/kg 8 mg/l h a available 3 - 2,253 mg/kg
Acute Not c <u>Com</u> Florfe Acute Acute Acute	e toxicity lassified based on availa ponents: enicol: e oral toxicity e inhalation toxicity e dermal toxicity e toxicity (other routes of	:	Eye contact information. LD50 (Rat): > 2,0 LD50 (Mouse): > LD50 (Dog): > 1,2 LC50 (Rat): > 0.2 Exposure time: 4 Remarks: No data LD50 (Rat): 1,913	2,000 mg/kg 280 mg/kg 8 mg/l h a available 3 - 2,253 mg/kg :: Intraperitoneal
Acute Not c Com Florfe Acute Acute Acute admin	e toxicity lassified based on availa ponents: enicol: e oral toxicity e inhalation toxicity e dermal toxicity e toxicity (other routes of histration)	:	Eye contact information. LD50 (Rat): > 2,0 LD50 (Mouse): > LD50 (Dog): > 1,2 LC50 (Rat): > 0.2 Exposure time: 4 Remarks: No data LD50 (Rat): 1,913 Application Route LD50 (Mouse): 10 Application Route	2,000 mg/kg 280 mg/kg 8 mg/l h a available 3 - 2,253 mg/kg :: Intraperitoneal 00 mg/kg :: Intravenous
Acute Not c Com Florfe Acute Acute Acute admin	e toxicity lassified based on availa ponents: enicol: e oral toxicity e inhalation toxicity e dermal toxicity e toxicity (other routes of histration)	:	Eye contact information. LD50 (Rat): > 2,0 LD50 (Mouse): > LD50 (Dog): > 1,2 LC50 (Rat): > 0.2 Exposure time: 4 Remarks: No data LD50 (Rat): 1,913 Application Route LD50 (Mouse): 10	2,000 mg/kg 280 mg/kg 8 mg/l h a available 3 - 2,253 mg/kg :: Intraperitoneal 00 mg/kg :: Intravenous



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			Exposure time: 4 Test atmosphere Method: OECD T	
Acute	e dermal toxicity	:	LD50 (Rat): > 5,0	000 mg/kg
	corrosion/irritation es skin irritation.			
Com	ponents:			
	enicol:			
Spec Resu		:	Rabbit No skin irritation	
N-Me Resu	ethyl-2-pyrrolidone:		Skin irritation	
		·		
	ous eye damage/eye ir es serious eye irritation		on	
<u>Com</u>	ponents:			
	enicol:			
Spec Resu		:	Rabbit Mild eye irritation	
NI 84-				
Spec	ethyl-2-pyrrolidone: ies	:	Rabbit	
Resu	•	:	Irritation to eyes,	reversing within 21 days
Resp	piratory or skin sensiti	isatio	on	
Skin	sensitisation			
	lassified based on avai	lable	information.	
-	piratory sensitisation lassified based on avai	lable	information.	
	ponents:			
Florf	enicol:			
Test		:	Maximisation Tes	st
Spec Resu		:	Guinea pig negative	
N-Me	thyl-2-pyrrolidone:			
Test	Туре	:	Local lymph node	e assay (LLNA)
Expo Spec	sure routes	:	Skin contact Mouse	
Topec		•		
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ersion 0	Revision Date: 06.04.2024	SDS Number: 10843837-00004	Date of last issue: 30.09.2023 Date of first issue: 31.08.2022
Metho Resul Rema	lt	: negative	Guideline 429 ta from similar materials
Not c	n cell mutagenicity lassified based on av ponents:	ailable information.	
	enicol:		
	toxicity in vitro	: Test Type: B Result: nega	acterial reverse mutation assay (AMES) tive
		thesis in mar	NA damage and repair, unscheduled DNA syn- nmalian cells (in vitro) rat hepatocytes tive
			n vitro mammalian cell gene mutation test mouse lymphoma cells tive
			hromosome aberration test in vitro Chinese hamster ovary cells ve
Geno	toxicity in vivo	: Test Type: N Species: Mor Cell type: Bo Application R Result: nega	ne marrow Route: Oral
II N-Me	thyl-2-pyrrolidone:		
	toxicity in vitro		acterial reverse mutation assay (AMES) CD Test Guideline 471 tive
			n vitro mammalian cell gene mutation test CD Test Guideline 476 tive
			NA damage and repair, unscheduled DNA syn- nmalian cells (in vitro) tive
Geno	toxicity in vivo	cytogenetic a Species: Mon Application F	use Route: Ingestion CD Test Guideline 474



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		cytogenetic te Species: Han Application R	oute: Ingestion D Test Guideline 475
	nogenicity lassified based on ava	ilable information.	
Comp	oonents:		
Florfe	enicol:		
Expos Resul	cation Route sure time	: Rat : oral (gavage) : 2 Years : negative : Liver, Testes	
Expos Resul	cation Route sure time	: Mouse : oral (gavage) : 2 Years : negative : Testes, Blood	
N-Me	thyl-2-pyrrolidone:		
Speci		: Rat	
	cation Route sure time	: Ingestion : 2 Years	
Resul		: negative	
Speci		: Rat	
Applic	cation Route sure time	: inhalation (va : 2 Years	pour)
Resul		: negative	
Repro	oductive toxicity		
May c	damage the unborn ch	ild. Suspected of da	maging fertility.
<u>Comp</u>	oonents:		
Florfe	enicol:		
Effect	s on fertility	Species: Rat Application R Fertility: LOA	vo-generation reproduction toxicity study oute: Oral EL: 12 mg/kg body weight ased pup survival, reduced lactation
Effect ment	s on foetal develop-	: Test Type: Er Species: Rat	nbryo-foetal development
		11 / 1	19



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		Embryo-foetal to Result: No terat	y Maternal: NOAEL: 4 mg/kg body weight oxicity: LOAEL: 40 mg/kg body weight ogenic effects, Fetotoxicity effects were seen only at maternally toxic do
		Species: Mouse Application Rou General Toxicity	ite: oral (gavage) y Maternal: NOAEL: 120 mg/kg body weight oxicity: LOAEL: 40 mg/kg body weight
Reprodu sessmer	ctive toxicity - As- t	fertility, based c	of adverse effects on sexual function and on animal experiments., Some evidence of on development, based on animal experi-
N-Methy	vl-2-pyrrolidone:		
Effects o	on fertility	Species: Rat Application Rou	Test Guideline 416
Effects o ment	n foetal develop-	Species: Rat Application Rou	oryo-foetal development ite: Ingestion Test Guideline 414
		Species: Rat	ility/early embryonic development ite: inhalation (vapour)
		Test Type: Emb Species: Rabbit Application Rou Result: positive	
Reprodu sessmer	ctive toxicity - As- nt	: Clear evidence animal experime	of adverse effects on development, based c ents.
May cau	single exposure se respiratory irritation	۱.	
<u>Compor</u>			
	vl-2-pyrrolidone:		
Assessm	nent	: May cause resp	piratory irritation.



Elertanical (15%) Injection Formulation

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	- repeated exposur es damage to organs		, Spinal cord, Blood, gallbladder) through pro
	d or repeated exposu		
Com	ponents:		
Florfe	enicol:		
	et Organs ssment		Testis, Spinal cord, Blood, gallbladder age to organs through prolonged or repeater
Repe	ated dose toxicity		
Com	ponents:		
Florfe	enicol:		
Speci		: Dog	
NOA	=∟ sure time	: 3 mg/kg : 13 Weeks	
	et Organs		, Brain, Spinal cord
Speci	ies	: Mouse	
NOA	ΞL	: 200 mg/kg	
	sure time	: 13 Weeks	
T arge	et Organs	: Liver, Testis	
Spec		: Rat	
NOA		: 30 mg/kg	
	sure time et Organs	: 13 Weeks : Liver, Testis	
Speci	ies	: Dog	
NOA		: 3 mg/kg	
LOAE		: 12 mg/kg	
Expo	sure time	: 52 Weeks	d de s

Exposure time Target Organs : Liver, gallbladder Species : Rat : Rat : 1 mg/kg : 3 mg/kg : 52 Weeks : Testis NOAEL LOAEL Exposure time

N-Methyl-2-pyrrolidone:

Target Organs

Species	:	Rat, male
NOAEL	:	169 mg/kg
LOAEL	:	433 mg/kg
Application Route	:	Ingestion
Exposure time	:	90 Days
Species NOAEL LOAEL Application Route Exposure time Method	:	OECD Test Guideline 408



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Expos Metho NOAE LOAE Applic	EL L sation Route sure time od es EL	 Rat 0.5 mg/l 1 mg/l inhalation (dust/mist/fume) 96 Days OECD Test Guideline 413 Rabbit 826 mg/kg 1,653 mg/kg Skin contact 20 Days
Not cl	ation toxicity assified based on availa rience with human exp	
Comp	oonents:	
N-Met Skin o	t hyl-2-pyrrolidone: contact	: Symptoms: Skin irritation
Section 12	2: Ecological informati	on
Toxic	itv	
	oonents:	
	enicol:	
Toxici	ty to fish	: LC50 (Lepomis macrochirus (Bluegill sunfish)): > 830 mg/l Exposure time: 96 h Method: FDA 4.11
		LC50 (Oncorhynchus mykiss (rainbow trout)): > 780 mg/l Exposure time: 96 h Method: FDA 4.11
	ty to daphnia and other ic invertebrates	: EC50 (Daphnia magna (Water flea)): > 330 mg/l Exposure time: 48 h Method: OECD Test Guideline 202
Toxici plants	ty to algae/aquatic	 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 Exposure time: 14 d Method: FDA 4.01



rsion)	Revision Date: 06.04.2024	-	OS Number: 843837-00004	Date of last issue: 30.09.2023 Date of first issue: 31.08.2022
			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 ēst Guideline 221
			Exposure time: 7	ibba (gibbous duckweed)): 0.39 mg/l d ēst Guideline 221
			Exposure time: 7	pelliculosa (Freshwater diatom)): 61 mg/l 2 h ⁻ est Guideline 201
			Exposure time: 7	pelliculosa (Freshwater diatom)): 19 mg/l 2 h ⁻ est Guideline 201
			Exposure time: 7	a 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
	or (Acute aquatic tox-	:	10	
icity) Toxicit <u>y</u> icity)	y to fish (Chronic tox-	:	Exposure time: 3	les promelas (fathead minnow)): 5.5 mg/l 2 d ⁻ est Guideline 210
	invertebrates (Chron-	:	Exposure time: 2	magna (Water flea)): 1.5 mg/l 1 d ⁻ est Guideline 211
M-Fact toxicity	or (Chronic aquatic)	:	10	
N-Meth	nyl-2-pyrrolidone:			
Toxicity	y to fish	:	LC50 (Oncorhyne Exposure time: 9	chus mykiss (rainbow trout)): > 500 mg/l 6 h
	y to daphnia and other invertebrates	:	EC50 (Daphnia r Exposure time: 2 Method: DIN 384	





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II					
Toxic plants	ity to algae/aquatic	:	ErC50 (Desmoor Exposure time:	lesmus subspicatus (green algae)): 600.5 72 h	
			EC10 (Desmod Exposure time:	esmus subspicatus (green algae)): 92.6 m 72 h	
	ic invertebrates (Chron-	:	Exposure time:	a magna (Water flea)): 12.5 mg/l 21 d Test Guideline 211	
Toxicity to microorganisms		:	EC50: > 600 mg/l Exposure time: 30 min Method: ISO 8192		
Persi	stence and degradabili	ty			
<u>Com</u>	oonents:				
N-Me	thyl-2-pyrrolidone:				
Biode	Biodegradability		Result: Readily biodegradable. Biodegradation: 73 % Exposure time: 28 d Method: OECD Test Guideline 301C		
Bioad	cumulative potential				
<u>Com</u>	oonents:				
Florfe	enicol:				
Partiti octan	on coefficient: n- ol/water	:	log Pow: 0.373 pH: 7		
N-Me	thyl-2-pyrrolidone:				
	on coefficient: n- ol/water	:	log Pow: -0.46 Method: OECD	Test Guideline 107	
Mobil	lity in soil				
Com	oonents:				
Florfe	enicol:				
	oution among environ- al compartments	:	Koc: 52 Method: FDA 3.	08	
	r adverse effects ata available				



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Section 13: Disposal considerations

Disposal methods		
Waste from residues	:	Do not dispose of waste into sewer. Dispose of in accordance with local regulations.
Contaminated packaging	:	Empty containers should be taken to an approved waste 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
UN proper shipping name	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Florfenicol)
Transport hazard class(es)	: 9
Packing group	: III
Labels	: 9
Environmental hazards	: yes
IATA-DGR	
UN/ID No.	: UN 3082
UN proper shipping name	: Environmentally hazardous substance, liquid, n.o.s. (Florfenicol)
Transport hazard class(es)	: 9
Packing group	: III
Labels	: Miscellaneous
Packing instruction (cargo aircraft)	: 964
Packing instruction (passen- ger aircraft)	: 964
Environmentally hazardous	: yes
IMDG-Code	
UN number	: UN 3082
Proper shipping name	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Florfenicol)
Transport hazard class(es)	: 9
Packing group	: UI
Labels	: 9
EmS Code	. 5 : F-A, S-F
Marine pollutant	: yes
	. ,00

Transport in bulk according to IMO instruments

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



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2.0	06.04.2024	10843837-00004	Date of first issue: 31.08.2022

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 specific for the product in question

Workplace Safety and Health Act and Workplace Safety and Health (General Provisions) Regulations: This product is subjected to the SDS, labelling, PEL and other requirements in the Act/Regulations.

Environmental Protection and Management Act and Environmental Protection and Management (Hazard- ous Substances) Regulations	:	Not applicable
Fire Safety (Petroleum and Flammable Materials) Regulations	:	Not applicable

The components of this product are reported in the following inventories:

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

Section 16: Other information

Revision Date	:	06.04.2024
Further information Sources of key data used to compile the Safety Data Sheet	:	Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agen- cy, http://echa.europa.eu/

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

Date format	:	dd.mm.yyyy
Full text of other abbreviation		

ACGIH BEI : ACGIH - Biological Exposure Indices (BEI)

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

SAFETY DATA SHEET



Florfenicol (45%) Injection Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 30.09.2023
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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.

SG / EN