according to GB/T 16483 and GB/T 17519



Florfenicol (45%) Injection Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 2023/04/04
1.2	2023/09/30	10843921-00003	Date of first issue: 2022/08/31

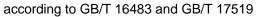
1. PRODUCT AND COMPANY IDENTIFICATION

Product name	:	Florfenicol (45%) Injection Formulation			
Manufacturer or supplier's de Company	etai :	i ls MSD			
Address	:	No. 485 Jing Tai Road Pu Tuo District - Shanghai - China 200331			
Telephone	:	+1-908-740-4000			
Emergency telephone number	:	86-571-87268110			
E-mail address	:	EHSDATASTEWARD@msd.com			
Recommended use of the chemical and restrictions on use					
Recommended use Restrictions on use	:	Veterinary product Not applicable			

2. HAZARDS IDENTIFICATION

Emergency Overview

Appearance Colour Odour	:	Aqueous solution clear No data available
respiratory irritation. May dama	age	ses skin irritation. Causes serious eye irritation. May cause the unborn child. Suspected of damaging fertility. Causes ged or repeated exposure. Very toxic to aquatic life with long
GHS Classification		
Acute toxicity (Oral)	:	Category 5
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 -	:	Category 1





Version 1.2	Revision Date: 2023/09/30	SDS Number: 10843921-00003	Date of last issue: 2023/04/04 Date of first issue: 2022/08/31
·	ated exposure t-term (acute) aquatic rd	: Category 1	
Long haza	-term (chronic) aquatic rd	: Category 1	
	label elements rd pictograms		!
Signa	al word	: Danger	• •
Haza	rd statements	H315 Causes sl H319 Causes sl H335 May caus H360Df May da fertility. H372 Causes d exposure.	armful if swallowed. kin irritation. erious eye irritation. e respiratory irritation. mage the unborn child. Suspected of damaging amage to organs through prolonged or repeated to aquatic life with long lasting effects.
Preca	autionary statements	P202 Do not ha and understood P260 Do not bre P264 Wash skir P270 Do not ea P271 Use only o P273 Avoid rele P280 Wear prot tion/ face proteo	eathe mist or vapours. a thoroughly after handling. t, drink or smoke when using this product. butdoors or in a well-ventilated area. ase to the environment. ective gloves/ protective clothing/ eye protec-
		P304 + P340 + and keep comfor doctor if you fee P305 + P351 + for several minu easy to do. Con P312 Call a PO P332 + P313 If tion.	P338 IF IN EYES: Rinse cautiously with water tes. Remove contact lenses, if present and

according to GB/T 16483 and GB/T 17519



Florfenicol (45%) Injection Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 2023/04/04
1.2	2023/09/30	10843921-00003	Date of first issue: 2022/08/31

P362 + P364 Take off contaminated clothing and wash it before reuse.

P391 Collect spillage.

Storage:

P405 Store locked up.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

Physical and chemical hazards

Not classified based on available information.

Health hazards

May be harmful if swallowed. Causes skin irritation. Causes serious eye irritation. May damage the unborn child. Suspected of damaging fertility. May cause respiratory irritation. Causes damage to organs through prolonged or repeated exposure.

Environmental hazards

Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.

Other hazards which do not result in classification

None known.

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

4. FIRST AID MEASURES

General advice	vic Wł	the case of accident or if you feel unwell, seek medical ad- ce immediately. hen symptoms persist or in all cases of doubt seek medical lvice.
If inhaled		nhaled, remove to fresh air. et medical attention.
In case of skin contact	for an Ge Wa	case of contact, immediately flush skin with plenty of water at least 15 minutes while removing contaminated clothing d shoes. et medical attention. ash clothing before reuse. horoughly clean shoes before reuse.
In case of eye contact	: In	case of contact, immediately flush eyes with plenty of water at least 15 minutes.

according to GB/T 16483 and GB/T 17519



Version 1.2	Revision Date: 2023/09/30	SDS Number:Date of last issue: 2023/04/0410843921-00003Date of first issue: 2022/08/31
Most	llowed important symptoms ffects, both acute and ed	 If easy to do, remove contact lens, if worn. Get medical attention. If swallowed, DO NOT induce vomiting. Get medical attention. Rinse mouth thoroughly with water. May be harmful if swallowed. Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation. May damage the unborn child. Suspected of damaging fertility.
	ction of first-aiders to physician	 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). Treat symptomatically and supportively.
5. FIREFIC	HTING MEASURES	
	ble extinguishing media table extinguishing	 Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical None known.
media Speci fightin	a fic hazards during fire-	 Exposure to combustion products may be a hazard to health. Carbon oxides Nitrogen oxides (NOx)
Speci ods	fic 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.
	al protective equipment efighters	Evacuate area.In the event of fire, wear self-contained breathing apparatus.Use personal protective equipment.
6. ACCIDE	ENTAL RELEASE MEAS	SURES
tive e	nal precautions, protec- quipment and emer- procedures	: Use personal protective equipment. Follow safe handling advice (see section 7) and personal pro- tective equipment recommendations (see section 8).
Enviro	onmental 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 o barriers). Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages
		4 / 20

Version

according to GB/T 16483 and GB/T 17519

Revision Date:



Date of last issue: 2023/04/04

Florfenicol (45%) Injection Formulation

SDS Number:

1.2	2023/09/30	108	43921-00003	Date of first issue: 2022/08/31
	Methods and materials for containment and cleaning up	:	For large spills, p ment to keep mat be pumped, store Clean up remaining bent. Local or national posal of this mate employed in the c mine which regula Sections 13 and	t absorbent material. rovide dyking or other appropriate contain- erial from spreading. If dyked material can recovered material in appropriate container. ng materials from spill with suitable absor- regulations may apply to releases and dis- rrial, as well as those materials and items leanup of releases. You will need to deter- ations are applicable. 15 of this SDS provide information regarding tional requirements.
7. H	IANDLING AND STORAGE			
	Handling			
	Technical measures	:		measures under EXPOSURE SONAL PROTECTION section.
	Local/Total ventilation		If sufficient ventila ventilation.	ation is unavailable, use with local exhaust
	Advice on safe handling		Handle in accorda practice, based of sessment Keep container tig Already sensitised to asthma, allergin should consult the tory irritants or se Do not eat, drink Take care to prev environment.	ist or vapours. s. ghly after handling. ance with good industrial hygiene and safety in the results of the workplace exposure as- ghtly closed. d individuals, and those susceptible es, chronic or recurrent respiratory disease, eir physician regarding working with respira-
	Avoidance of contact	:	Oxidizing agents	
	Storage			
	Conditions for safe storage Materials to avoid	:	Store locked up. Keep tightly close Keep in a cool, w Store in accordan	abelled containers. d. ell-ventilated place. ce with the particular national regulations. the following product types:
			Strong oxidizing a	
	Packaging material	:	Unsuitable materi	al: None known.

according to GB/T 16483 and GB/T 17519



Florfenicol (45%) Injection Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 2023/04/04
1.2	2023/09/30	10843921-00003	Date of first issue: 2022/08/31

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

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., 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.
Personal protective equipment	t
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
Eye/face 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 and body protection : Hand protection	Work uniform or laboratory coat.
Material :	Chemical-resistant gloves
Hygiene measures :	If exposure to chemical is likely during typical use, provide eye flushing systems and safety showers close to the work-

ing place. When using do not eat, drink or smoke. Wash contaminated clothing before re-use.

The effective operation of a facility should include review of

according to GB/T 16483 and GB/T 17519



Florfenicol (45%) Injection Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 2023/04/04
1.2	2023/09/30	10843921-00003	Date of first issue: 2022/08/31

engineering controls, proper personal protective equipment, appropriate degowning and decontamination procedures, industrial hygiene monitoring, medical surveillance and the use of administrative controls.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	Aqueous solution
Colour	:	clear
Odour	:	No data available
Odour Threshold	:	No data available
рН	:	No data available
Melting point/freezing point	:	No data available
Initial boiling point and boiling range	:	No data available
Flash point	:	No data available
Evaporation rate	:	No data available
Flammability (solid, gas)	:	Not applicable
Flammability (liquids)	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapour pressure	:	No data available
Relative vapour density	:	No data available
Relative density	:	No data available
Density	:	No data available
Solubility(ies) Water solubility	:	No data available
Partition coefficient: n- octanol/water	:	Not applicable
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available



Florfenicol (45%) Injection Formulation

Version 1.2	Revision Date: 2023/09/30		9S Number: 843921-00003	Date of last issue: 2023/04/04 Date of first issue: 2022/08/31
Explo Oxidi Mole	osity iscosity, kinematic osive properties izing properties cular weight cle size	: : : : : : : : : : : : : : : : : : : :	No data available Not explosive The substance o No data available Not applicable	r mixture is not classified as oxidizing.
10. STAB	ILITY AND REACTIVITY	1		
Poss tions Cond Incor	nical stability ibility of hazardous reac- litions to avoid npatible materials irdous decomposition	:	Stable under nor Can react with st None known. Oxidizing agents	rong oxidizing agents.
11. TOXIC	COLOGICAL INFORMAT	ΓΙΟΝ	N	
Ехро	sure routes	:	Inhalation Skin contact Ingestion Eye contact	
	e toxicity			
•	be harmful if swallowed.			
Prod Acute	ə oral toxicity	:	Acute toxicity esti Method: Calculati	mate: 3,784 mg/kg on method
<u>Com</u>	ponents:			

Florfenicol:

Acute oral toxicity	:	LD50 (Rat): > 2,000 mg/kg
		LD50 (Mouse): > 2,000 mg/kg
		LD50 (Dog): > 1,280 mg/kg
Acute inhalation toxicity	:	LC50 (Rat): > 0.28 mg/l Exposure time: 4 h



Florfenicol (45%) Injection Formulation

rsion	Revision Date: 2023/09/30	-	98 Number: 843921-00003	Date of last issue: 2023/04/04 Date of first issue: 2022/08/31
Acute	e dermal toxicity	:	Remarks: No data	a available
	e toxicity (other routes of histration)	:	LD50 (Rat): 1,913 Application Route	
			LD50 (Mouse): 10 Application Route	
N-Me	thyl-2-pyrrolidone:			
Acute	e oral toxicity	:	LD50 (Rat): 4,150) mg/kg
Acute	inhalation toxicity	:	LC50 (Rat): > 5.1 Exposure time: 4 Test atmosphere: Method: OECD T	h dust/mist
Acute	e dermal toxicity	:	LD50 (Rat): > 5,0	00 mg/kg
-	corrosion/irritation es skin irritation.			
Com	ponents:			
Florfe	enicol:			
Speci Resu		:	Rabbit No skin irritation	
N-Me Resul	thyl-2-pyrrolidone: It	:	Skin irritation	
	us eye damage/eye irri es serious eye irritation.	tati	on	
	oonents:			
Florfe	enicol:			
Speci Resu		:	Rabbit Mild eye irritation	
N-Me	thyl-2-pyrrolidone:			
Speci Resu		:	Rabbit Irritation to eyes,	reversing within 21 days
Resp	iratory or skin sensitis	atic	n	
	consitiontion			

Skin sensitisation

Not classified based on available information.

according to GB/T 16483 and GB/T 17519



Florfenicol (45%) Injection Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 2023/04/04
1.2	2023/09/30	10843921-00003	Date of first issue: 2022/08/31

Respiratory sensitisation

Not classified based on available information.

Components:

Florfenicol:

Test Type	:	Maximisation Test
Species	:	Guinea pig
Result	:	negative

N-Methyl-2-pyrrolidone:

Test Type :	Local lymph node assay (LLNA)
Exposure routes :	Skin contact
Species :	Mouse
Method :	OECD Test Guideline 429
Result :	negative
Remarks :	Based on data from similar materials

Germ cell mutagenicity

Not classified based on available information.

Components:

Florfenicol:	
Genotoxicity in vitro :	Test Type: Bacterial reverse mutation assay (AMES) Result: negative
	Test Type: DNA damage and repair, unscheduled DNA syn- thesis 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
Genotoxicity in vivo :	Test Type: Micronucleus test Species: Mouse Cell type: Bone marrow Application Route: Oral Result: negative
N-Methyl-2-pyrrolidone:	
Genotoxicity in vitro :	Test Type: Bacterial reverse mutation assay (AMES) Method: OECD Test Guideline 471 Result: negative

according to GB/T 16483 and GB/T 17519



Versio 1.2	n Revision Date: 2023/09/30	SDS Number: 10843921-0000	Date of last issue: 2023/04/04 Date of first issue: 2022/08/31
		Method: OE Result: nega Test Type: [DNA damage and repair, unscheduled DNA syn- mmalian cells (in vitro)
G	enotoxicity in vivo	cytogenetic Species: Mc Application Method: OE Result: nega Test Type: N cytogenetic Species: Ha Application	Ause Route: Ingestion CD Test Guideline 474 Autagenicity (in vivo mammalian bone-marrow test, chromosomal analysis) mster Route: Ingestion CD Test Guideline 475
	arcinogenicity ot classified based on availa	ble information.	
<u>c</u>	omponents:		
F	lorfenicol:		
A E R	pecies pplication Route xposure time esult arget Organs	: Rat : oral (gavage : 2 Years : negative : Liver, Teste	
A E R	pecies pplication Route xposure time esult arget Organs	: Mouse : oral (gavage : 2 Years : negative : Testes, Bloo	
N	-Methyl-2-pyrrolidone:		
S A E	pecies pplication Route xposure time esult	: Rat : Ingestion : 2 Years : negative	
A	pecies pplication Route xposure time	: Rat : inhalation (v : 2 Years	apour)

according to GB/T 16483 and GB/T 17519



Version 1.2	Revision Date: 2023/09/30	SDS Number:Date of last issue: 2023/04/0410843921-00003Date of first issue: 2022/08/31
Re	sult	: negative
Ma		ild. Suspected of damaging fertility.
	mponents:	
	rfenicol: ects on fertility	 Test Type: Two-generation reproduction toxicity study Species: Rat Application Route: Oral Fertility: LOAEL: 12 mg/kg body weight Result: decreased pup survival, reduced lactation
Effe me	ects on foetal develop- nt	 Test Type: Embryo-foetal development Species: Rat General Toxicity Maternal: NOAEL: 4 mg/kg body weight Embryo-foetal toxicity: LOAEL: 40 mg/kg body weight Result: No teratogenic effects, Fetotoxicity Remarks: The effects were seen only at maternally toxic dos- es.
		Test Type: Embryo-foetal development Species: Mouse Application Route: oral (gavage) General Toxicity Maternal: NOAEL: 120 mg/kg body weight Embryo-foetal toxicity: LOAEL: 40 mg/kg body weight Result: Fetotoxicity
	productive toxicity - As- sment	: Some evidence of adverse effects on sexual function and fertility, based on animal experiments., Some evidence of adverse effects on development, based on animal experiments.
N-M	Methyl-2-pyrrolidone:	
Effe	ects on fertility	 Test Type: Two-generation reproduction toxicity study Species: Rat Application Route: Ingestion Method: OECD Test Guideline 416 Result: negative
Effe me	ects on foetal develop- nt	: Test Type: Embryo-foetal development Species: Rat Application Route: Ingestion Method: OECD Test Guideline 414 Result: positive
		Test Type: Fertility/early embryonic development Species: Rat Application Route: inhalation (vapour)

according to GB/T 16483 and GB/T 17519



rsion	Revision Date: 2023/09/30		DS Number: 843921-00003	Date of last issue: 2023/04/04 Date of first issue: 2022/08/31
			Result: positive	
				in factal devialenment
			Application Route Result: positive	yo-foetal development e: Ingestion
Repro sessm	oductive toxicity - As- nent	:	Clear evidence o animal experimer	f adverse effects on development, based on nts.
	- single exposure ause respiratory irritati	on.		
Comp	oonents:			
N-Met	thyl-2-pyrrolidone:			
	ssment	:	May cause respir	atory irritation.
отот				
STOT - repeated exposure				peated exposure
Causes damage to organs through prolonged or repeated exposure. Components:				
Florfe			Liver Brain Test	ic Spinal cord Rlood gallbladdor
Targe	e nicol: It Organs Issment	:		is, Spinal cord, Blood, gallbladder to organs through prolonged or repeated
Targe Asses	t Organs	:	Causes damage	
Targe Asses Repe	t Organs ssment	::	Causes damage	
Targe Asses Repe a	t Organs ssment ated dose toxicity	:	Causes damage	
Targe Asses Repea <u>Comp</u> Florfe Specie	et Organs ssment ated dose toxicity <u>conents:</u> enicol: es	::	Causes damage exposure.	
Targe Asses Repea <u>Comp</u> Florfe Specie NOAE	et Organs ssment ated dose toxicity <u>ponents:</u> enicol: es EL	::	Causes damage exposure. Dog 3 mg/kg	
Targe Asses Repea Comp Florfe Specie NOAE Expos	et Organs ssment ated dose toxicity <u>conents:</u> enicol: es	:	Causes damage exposure.	to organs through prolonged or repeated
Targe Asses Repea Comp Florfe Specia NOAE Expose Targe	ated dose toxicity ponents: enicol: es EL sure time it Organs		Causes damage exposure. Dog 3 mg/kg 13 Weeks Liver, Testis, Bra	to organs through prolonged or repeated
Targe Asses Repea Comp Florfe Specie NOAE Expos Targe Specie NOAE	ated dose toxicity ated dose toxicity ponents: enicol: es EL sure time it Organs es EL		Causes damage exposure. Dog 3 mg/kg 13 Weeks Liver, Testis, Bra Mouse 200 mg/kg	to organs through prolonged or repeated
Targe Asses Repea Comp Florfe Specie NOAE Expos Targe Specie NOAE	ated dose toxicity ated dose toxicity ponents: enicol: es EL sure time t Organs es EL sure time		Causes damage exposure. Dog 3 mg/kg 13 Weeks Liver, Testis, Bra Mouse 200 mg/kg 13 Weeks	to organs through prolonged or repeated
Targe Asses Repea Comp Florfe Specie NOAE Expos Targe Specie NOAE Expos Targe	ated dose toxicity ated dose toxicity ponents: enicol: es EL sure time t Organs es EL sure time t Organs		Causes damage exposure. Dog 3 mg/kg 13 Weeks Liver, Testis, Bra Mouse 200 mg/kg	to organs through prolonged or repeated
Targe Asses Repea Comp Florfe Specie NOAE Expos Targe Specie NOAE Expos Targe	ated dose toxicity ated dose toxicity ponents: enicol: es EL sure time t Organs es EL sure time t Organs es es es es es es es es es e		Causes damage exposure. Dog 3 mg/kg 13 Weeks Liver, Testis, Bra Mouse 200 mg/kg 13 Weeks Liver, Testis Rat	to organs through prolonged or repeated
Targe Asses Repea Comp Florfe Specia NOAE Expos Targe Specia NOAE Expos Targe	es EL Sure time to Organs es EL Sure time to Organs es EL Sure time to Organs es EL Sure time to Organs es EL Sure time to Organs		Causes damage exposure. Dog 3 mg/kg 13 Weeks Liver, Testis, Bra Mouse 200 mg/kg 13 Weeks Liver, Testis Rat 30 mg/kg	to organs through prolonged or repeated
Targe Asses Repea Comp Florfe Specie NOAE Expos Targe Specie NOAE Expos Targe	ated dose toxicity ated dose toxicity ponents: enicol: es EL sure time t Organs es EL sure time t Organs es es es es es es es es es e		Causes damage exposure. Dog 3 mg/kg 13 Weeks Liver, Testis, Bra Mouse 200 mg/kg 13 Weeks Liver, Testis Rat	to organs through prolonged or repeated
Targe Asses Repea Comp Florfe Specie NOAE Expos Targe Specie NOAE Expos Targe	ated dose toxicity ated dose toxicity ponents: enicol: es EL sure time it Organs es EL sure time it Organs es EL sure time it Organs		Causes damage exposure. Dog 3 mg/kg 13 Weeks Liver, Testis, Bra Mouse 200 mg/kg 13 Weeks Liver, Testis Rat 30 mg/kg 13 Weeks	to organs through prolonged or repeated



Version 1.2	Revision Date: 2023/09/30	SDS Number: 10843921-00003	Date of last issue: 2023/04/04 Date of first issue: 2022/08/31
	EL sure time et Organs	: 12 mg/kg : 52 Weeks : Liver, gallbladder	
	ΞL	: Rat : 1 mg/kg : 3 mg/kg : 52 Weeks : Testis	
N-Me	thyl-2-pyrrolidone:		
	EL EL cation Route sure time	: Rat, male : 169 mg/kg : 433 mg/kg : Ingestion : 90 Days : OECD Test Guide	line 408
	EL EL cation Route sure time	: Rat : 0.5 mg/l : 1 mg/l : inhalation (dust/m : 96 Days : OECD Test Guide	
	ΞL	: Rabbit : 826 mg/kg : 1,653 mg/kg : Skin contact : 20 Days	
-	ration toxicity lassified based on ava	ilable information.	
Expe	rience with human ex	cposure	
<u>Com</u>	oonents:		
	thyl-2-pyrrolidone: contact	: Symptoms: Skin i	rritation
12. ECOL	OGICAL INFORMATI	N	
Ecoto	oxicity		
Com	oonents:		
	enicol: ity to fish	: LC50 (Lepomis m Exposure time: 96	acrochirus (Bluegill sunfish)): > 830 mg/l } h

according to GB/T 16483 and GB/T 17519



Version 1.2	Revision Date: 2023/09/30	-	0S Number: 843921-00003	Date of last issue: 2023/04/04 Date of first issue: 2022/08/31
			Method: FDA 4.11	
			LC50 (Oncorhync Exposure time: 96 Method: FDA 4.11	
	y to daphnia and other c invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: OECD Te	
Toxicit plants	y to algae/aquatic	:	EC50 (Pseudokiro mg/l Exposure time: 14 Method: FDA 4.01	
			NOEC (Pseudokir mg/l Exposure time: 14 Method: FDA 4.01	
			IC50 (Skeletonem Exposure time: 72 Method: ISO 1025	
			NOEC (Skeletone Exposure time: 72 Method: ISO 1025	
			EC50 (Lemna gib Exposure time: 7 Method: OECD Te	
			NOEC (Lemna gib Exposure time: 7 Method: OECD Te	
			EC50 (Navicula p Exposure time: 72 Method: OECD Te	
			NOEC (Navicula p Exposure time: 72 Method: OECD Te	
			EC50 (Anabaena Exposure time: 72 Method: OECD Te	
			NOEC (Anabaena Exposure time: 72 Method: OECD Te	



rsion	Revision Date: 2023/09/30		0S Number: 843921-00003	Date of last issue: 2023/04/04 Date of first issue: 2022/08/31
M-Fac icity)	tor (Acute aquatic tox-	:	10	
	ty to fish (Chronic tox-	:	Exposure time:	ales promelas (fathead minnow)): 5.5 mg/l 32 d Test Guideline 210
	ty to daphnia and other c invertebrates (Chron- city)	:	Exposure time:	a magna (Water flea)): 1.5 mg/l 21 d Test Guideline 211
M-Fac toxicity	tor (Chronic aquatic	:	10	
N-Met	hyl-2-pyrrolidone:			
	ty to fish	:	LC50 (Oncorhy Exposure time:	nchus mykiss (rainbow trout)): > 500 mg/l 96 h
	ty to daphnia and other c invertebrates	:	EC50 (Daphnia Exposure time: Method: DIN 38	
Toxicit plants	ty 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
	ty to daphnia and other c invertebrates (Chron- city)	:	Exposure time:	a magna (Water flea)): 12.5 mg/l 21 d Test Guideline 211
Toxicit	ty to microorganisms	:	EC50: > 600 mg Exposure time: Method: ISO 81	30 min
Persis	stence and degradabili	ty		
<u>Comp</u>	onents:			
	hyl-2-pyrrolidone: gradability	:	Result: Readily Biodegradation: Exposure time: Method: OECD	73 %
Bioac	cumulative potential			
<u>Comp</u>	onents:			
	nicol:			



Version 1.2	Revision Date: 2023/09/30	-	DS Number: 843921-00003	Date of last issue: 2023/04/04 Date of first issue: 2022/08/31
Port	ition coefficient: n-		log Pow: 0.373	
	nol/water	•	log Pow: 0.373 pH: 7	
Part	N-Methyl-2-pyrrolidone: Partition coefficient: n- octanol/water		log Pow: -0.46 Method: OECD T	est Guideline 107
Mot	bility in soil			
Con	nponents:			
Dist	fenicol: ribution among environ- tal compartments	:	Koc: 52 Method: FDA 3.0	3
	er adverse effects data available			
13. DISP	OSAL CONSIDERATION	١S		
Dis	oosal methods			
Was	ste from residues	:		waste into sewer. ordance with local regulations.
Con	taminated packaging	:	Empty containers dling site for recy	should be taken to an approved waste han-
14. TRA	NSPORT INFORMATION	1		
Inte	rnational Regulations			
	RTDG			
	number ber shipping name	:		ALLY HAZARDOUS SUBSTANCE, LIQUID,
Clas	s king group	:	9 III	
Lab		:	9 yes	
IAT. UN/ Prop	A-DGR ID No. ber shipping name	:	UN 3082	nazardous substance, liquid, n.o.s.
	king group	:	9 III	
Lab Pac	els king instruction (cargo	:	Miscellaneous 964	



Florfenicol (45%) Injection Formulation

rsion 2	Revision Date: 2023/09/30	-	DS Number: 843921-00003	Date of last issue: 2023/04/04 Date of first issue: 2022/08/31
aircra Packi	ft) ng instruction (passen-	:	964	
ger ai	rcraft) nmentally hazardous	:	yes	
IMDG	-Code			
UN nı	umber	:	UN 3082	
Prope	er shipping name	:	ENVIRONMEN	ALLY HAZARDOUS SUBSTANCE, LIQ
			N.O.S. (Florfenicol)	
Class		:	9	
Packi	ng group	:	111	
Label	S	:	9	
EmS	Code	:	F-A, S-F	
Marin	e pollutant	:	yes	

National Regulations

GB 6944/12268

00 0011,12200		
UN number	:	UN 3082
Proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Florfenicol)
Class	:	9
Packing group	:	III
Labels	:	9
Marine pollutant	:	no

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.

15. REGULATORY INFORMATION

National regulatory information Law on the Prevention and Control of Occupational Diseases

Yangtze River Protection Law

This product does not contain any dangerous chemicals prohibited for inland river transport.

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

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



Florfenicol (45%) Injection Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 2023/04/04
1.2	2023/09/30	10843921-00003	Date of first issue: 2022/08/31

16. OTHER INFORMATION

Revision Date	:	2023/09/30		
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/		
Date format	:	yyyy/mm/dd		
Full text of other abbreviations				
		ACCILL Dislogical Europeuro Indiago (DEI)		

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 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

Disclaimer

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



Florfenicol (45%) Injection Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 2023/04/04
1.2	2023/09/30	10843921-00003	Date of first issue: 2022/08/31

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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