according to the Globally Harmonized System



Florfenicol / Flunixin Injection Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 30.09.2023
2.0	28.09.2024	10846429-00004	Date of first issue: 06.09.2022

1. PRODUCT AND COMPANY IDENTIFICATION

Product name	:	Florfenicol / Flunixin Injection Formulation				
Manufacturer or supplier's details						
Company	:	MSD				
Address	:	Briahnager - Off Pune Nagar Road Wagholi - Pune - India 412 207				
Telephone	:	+1-908-740-4000				
Emergency telephone number	:	+1-908-423-6000				
E-mail address	:	EHSDATASTEWARD@msd.com				
Recommended use of the ch	em	ical and restrictions on use				
Recommended use Restrictions on use	:	Veterinary product Not applicable				

2. HAZARDS IDENTIFICATION

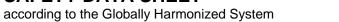
Manufacture, Storage and Import of Hazardous Chemicals Rules 1989

Classification

Not classified as hazardous according to criteria laid down in Part I of Schedule-1.

GHS Classification

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





ersion 0	Revision Date: 28.09.2024	SDS Number: 10846429-00004	Date of last issue: 30.09.2023 Date of first issue: 06.09.2022
Short- hazar	-term (acute) aquatic d	: Category 1	
Long- hazar	term (chronic) aquatic d	: Category 1	
GHS I	label elements		
Hazar	d pictograms		! 🕹
Signa	l word	: Danger	V V
Hazar	rd statements	H315 + H319 C H335 May caus H360Df May da fertility. H372 Causes d cord, Blood, ga sure. H373 May caus Kidney) through	larmful if swallowed or if inhaled. causes skin irritation and serious eye irritation. are respiratory irritation. Image the unborn child. Suspected of damagi lamage to organs (Liver, Brain, Testis, Spinal llbladder) through prolonged or repeated expo se damage to organs (Gastrointestinal tract, a prolonged or repeated exposure. c to aquatic life with long lasting effects.
Preca	utionary statements	P260 Do not br P264 Wash har P270 Do not ea P271 Use only P273 Avoid rele	ead and follow all safety instructions before us eathe mist or vapours. Inds thoroughly after handling. It, drink or smoke when using this product. outdoors or with adequate ventilation. ease to the environment. tective gloves/ protective clothing/ eye protec- ction.
		Rinse mouth. P302 + P352 IF P304 + P340 + and keep comfo P305 + P351 + for several minu easy to do. Cor P318 IF expose P332 + P317 If P337 + P317 If	ed or concerned, get medical advice. skin irritation occurs: Get medical help. eye irritation persists: Get medical help. ake off contaminated clothing and wash it befo billage.

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Disposal:

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

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	>= 20 - < 30
1-deoxy-1-(methylamino)-D-glucitol 2-[2-methyl-3- (perfluoromethyl)anilino]nicotinate	42461-84-7	>= 2.5 - < 3
Citric acid	77-92-9	>= 1 - < 5

4. FIRST AID MEASURES

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

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	Notes	to physician	:	when the potential for exposure exists (see section 8). Treat symptomatically and supportively.		
5. F	IREFIG	HTING MEASURES				
	Suitabl	e extinguishing media	:	Water spray Alcohol-resistant Carbon dioxide (C Dry chemical		
	Unsuita media	able extinguishing	:	None known.		
	Specifi fighting	c hazards during fire-	:	Exposure to com	pustion products may be a hazard to health.	
	Hazaro ucts	lous combustion prod-	:	Carbon oxides Fluorine compour Nitrogen oxides (l		
	Specific extinguishing meth- ods		:	cumstances and t Use water spray t	measures that are appropriate to local cir- he surrounding environment. o cool unopened containers. ged containers from fire area if it is safe to do	
	Specia for firef	l protective equipment ïghters	:		e, wear self-contained breathing apparatus. tective equipment.	
6. A	CCIDE	NTAL RELEASE MEAS	SUF	RES		
	tive eq	al precautions, protec- uipment and emer- procedures	:	Follow safe handl	tective equipment. ing advice (see section 7) and personal pro- recommendations (see section 8).	
	Enviro	nmental precautions	:	Prevent spreading barriers). Retain and dispos	akage or spillage if safe to do so. g over a wide area (e.g. by containment or oil se of contaminated wash water. should be advised if significant spillages	

Methods and materials for containment and cleaning up : Soak up with inert absorbent material. For large spills, provide dyking or other appropriate containment 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 absorbent. Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to deter-

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		Sections 13 an	ulations are applicable. d 15 of this SDS provide information regarding national requirements.
7. HAND	LING AND STORAGE		
Tech	nnical measures		g measures under EXPOSURE ERSONAL PROTECTION section.
Loca	al/Total ventilation	: If sufficient ven	tilation is unavailable, use with local exhaust
 Advice on safe handling Advice on safe handling Do not get on skin or clothin Do not breathe mist or vap Do not swallow. Do not get in eyes. Wash skin thoroughly after Handle in accordance with practice, based on the resusessment Keep container tightly closs Already sensitised individu to asthma, allergies, chron should consult their physic tory irritants or sensitisers. Do not eat, drink or smoke 		mist or vapours. yes. oughly after handling. rdance with good industrial hygiene and safety on the results of the workplace exposure as- tightly closed. sed individuals, and those susceptible rgies, chronic or recurrent respiratory disease, their physician regarding working with respira-	
Con	ditions for safe storage	Store locked up Keep tightly clo Keep in a cool,	
Mate	erials to avoid		th the following product types:

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	
1-deoxy-1-(methylamino)-D- glucitol 2-[2-methyl-3- (perfluorome- thyl)anilino]nicotinate	42461-84-7	TWA	40 µg/m3 (OEB 3)	Internal	
	Further information: Skin				
		Wipe limit	400 µg/100 cm ²	Internal	

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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. Containment technologies suitable for controlling compounds are required to control at source and to prevent migration of the compound to uncontrolled areas (e.g., open-face contain- ment devices). Minimize open handling.
Personal protective equipme	ent	
Respiratory protection	:	If adequate local exhaust ventilation is not available or expo- sure assessment demonstrates exposures outside the rec- ommended guidelines, use respiratory protection. Combined particulates and organic vapour type
Hand protection		
Material	:	Chemical-resistant gloves
Remarks Eye protection	:	Consider double gloving. 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	:	Work uniform or laboratory coat. Additional body garments should be used based upon the task being performed (e.g., sleevelets, apron, gauntlets, disposable suits) to avoid exposed skin surfaces. Use appropriate degowning techniques to remove potentially contaminated clothing.
Hygiene measures	:	If exposure to chemical is likely during typical use, provide eye flushing systems and safety showers close to the working 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 engineering controls, proper personal protective equipment, appropriate degowning and decontamination procedures, industrial hygiene monitoring, medical surveillance and the

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use of administrative controls.

9. PHYSICAL AND CHEMICAL PROPERTIES Appearance liquid : Colour light yellow ÷ Straw-coloured Odour No data available **Odour Threshold** No data available 1 pН No data available t Melting point/freezing point No data available 1 Initial boiling point and boiling No data available : range No data available Flash point 2 Evaporation rate 2 No data available Flammability (solid, gas) Not applicable 1 Flammability (liquids) No data available Upper explosion limit / Upper No data available 1 flammability limit Lower explosion limit / Lower No data available : flammability limit No data available Vapour pressure 1 Relative vapour density No data available 5 Relative density 1 No data available Density No data available 2 Solubility(ies) Water solubility No data available 2 Partition coefficient: n-Not applicable 2 octanol/water Auto-ignition temperature No data available Decomposition temperature No data available 2 Viscosity Viscosity, kinematic No data available 2

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Expl	osive properties	:	Not explosive		
Oxid	lizing properties	:	The substance of	r mixture is not classified as oxidizing.	
Mole	ecular weight	:	No data availabl	e	
	icle characteristics icle size	:	Not applicable		
10. STAE	BILITY AND REACTIVITY	/			
Cher Poss tions Cone Inco	ditions to avoid mpatible materials ardous decomposition	:	Stable under not Can react with s None known. Oxidizing agents	trong oxidizing agents.	
11. TOXI	COLOGICAL INFORMAT		1		
	mation on likely routes of osure	:	Inhalation Skin contact Ingestion Eye contact		
	te toxicity nful if swallowed or if inha	ıled.			
	duct:				
Acut	e oral toxicity	:	Acute toxicity est Method: Calculat	imate: 1,435 mg/kg ion method	
Acut	e inhalation toxicity	:	Acute toxicity estimate: 1.86 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: Calculation method		
Com	<u>iponents:</u>				
Flor	fenicol:				
Acut	e oral toxicity	:	LD50 (Rat): > 2,0	00 mg/kg	
			LD50 (Mouse): >	2,000 mg/kg	
			LD50 (Dog): > 1,2	280 mg/kg	
Acut	e inhalation toxicity	:	LC50 (Rat): > 0.28 mg/l Exposure time: 4 h		
Acut	e dermal toxicity	:	Remarks: No dat	a available	





Acute toxicity (other routes of : LD50 (Rat): 1,913 - 2,253 mg/kg administration) ED50 (Nouse): 100 mg/kg Application Route: Intraperitoneal LD50 (Mouse): 100 mg/kg Acute oral toxicity : LD50 (Rat): 4,150 mg/kg Acute inhalation toxicity : LD50 (Rat): > 5.1 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403 Acute dermal toxicity : LD50 (Rat): > 5,000 mg/kg 1-deoxy-1-(methylamino)-D-glucitol 2-[2-methyl-3-(perfluoromethyl)anilino]nicotinate: Acute oral toxicity : LD50 (Rat): S - 157 mg/kg LD50 (Mouse): 176 - 249 mg/kg LD50 (Mouse): 300 mg/kg Acute oral toxicity : LD50 (Rat): S - 157 mg/kg LD50 (Mouse): 176 - 249 mg/kg Acute oral toxicity : LC50 (Rat): < 0.52 mg/l Exposure time: 4 h Test atmosphere: dust/mist Acute toxicity (other routes of : : LD50 (Rat): < 0.52 mg/l Exposure time: 4 h Test atmosphere: dust/mist Acute toxicity (other routes of : : LD50 (Rat): > 2.000 mg/kg	Versior 2.0	n Revision Date: 28.09.2024		S Number: 846429-00004	Date of last issue: 30.09.2023 Date of first issue: 06.09.2022
Application Route: Intravenous N-Methyl-2-pyrrolidone: Acute oral toxicity : LD50 (Rat): 4,150 mg/kg Acute inhalation toxicity : LC50 (Rat): > 5,1 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403 Acute dermal toxicity : LD50 (Rat): > 5,000 mg/kg 1-deoxy-1-(methylamino)-D-glucitol 2-[2-methyl-3-(perfluoromethyl)anilino]nicotinate: Acute oral toxicity : LD50 (Rat): 53 - 157 mg/kg LD50 (Mouse): 176 - 249 mg/kg LD50 (Mouse): 176 - 249 mg/kg LD50 (Mouse): 176 - 249 mg/kg LD50 (Rat): < 0.52 mg/l			:		
Acute oral toxicity : LD50 (Rat): 4,150 mg/kg Acute inhalation toxicity : LC50 (Rat): > 5.1 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403 Acute dermal toxicity : LD50 (Rat): > 5,000 mg/kg 1-deoxy-1-(methylamino)-D-glucitol 2-[2-methyl-3-(perfluoromethyl)anilino]nicotinate: Acute oral toxicity : LD50 (Rat): > 3 - 157 mg/kg LD50 (Mouse): 176 - 249 mg/kg LD50 (Guinea pig): 488.3 mg/kg LD50 (Guinea pig): 488.3 mg/kg LD50 (Mouse): 176 - 249 mg/kg Acute inhalation toxicity : LC50 (Rat): < 0.52 mg/l					
Acute inhalation toxicity : LC50 (Rat): > 5.1 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403 Acute dermal toxicity : LD50 (Rat): > 5,000 mg/kg 1-deoxy-1-(methylamino)-D-glucitol 2-[2-methyl-3-(perfluoromethyl)anilino]nicotinate: Acute oral toxicity : LD50 (Rat): 53 - 157 mg/kg LD50 (Guinea pig): 488.3 mg/kg LD50 (Guinea pig): 488.3 mg/kg LD50 (Guinea pig): 488.3 mg/kg LD50 (Monkey): 300 mg/kg Acute inhalation toxicity : LC50 (Rat): < 0.52 mg/l	N-	Methyl-2-pyrrolidone:			
Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403 Acute dermal toxicity : LD50 (Rat): > 5,000 mg/kg 1-deoxy-1-(methylamino)-D-glucitol 2-[2-methyl-3-(perfluoromethyl)anilino]nicotinate: Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg LD50 (Guinea pig): 488.3 mg/kg LD50 (Guinea pig): 488.3 mg/kg LD50 (Monkey): 300 mg/kg Acute inhalation toxicity : LC50 (Rat): < 0.52 mg/l	Ac	cute oral toxicity	:	LD50 (Rat): 4,150	mg/kg
1-deoxy-1-(methylamino)-D-glucitol 2-[2-methyl-3-(perfluoromethyl)anilino]nicotinate: Acute oral toxicity : LD50 (Rat): 53 - 157 mg/kg LD50 (Mouse): 176 - 249 mg/kg LD50 (Guinea pig): 488.3 mg/kg LD50 (Guinea pig): 488.3 mg/kg LD50 (Monkey): 300 mg/kg Acute inhalation toxicity : LC50 (Rat): < 0.52 mg/l	Ac	cute inhalation toxicity	:	Exposure time: 4 I Test atmosphere:	h dust/mist
Acute oral toxicity : LD50 (Rat): 53 - 157 mg/kg LD50 (Mouse): 176 - 249 mg/kg LD50 (Guinea pig): 488.3 mg/kg LD50 (Monkey): 300 mg/kg LD50 (Monkey): 300 mg/kg Acute inhalation toxicity : LC50 (Rat): < 0.52 mg/l	Ac	cute dermal toxicity	:	LD50 (Rat): > 5,00	00 mg/kg
LD50 (Mouse): 176 - 249 mg/kg LD50 (Guinea pig): 488.3 mg/kg LD50 (Monkey): 300 mg/kg Acute inhalation toxicity : LC50 (Rat): < 0.52 mg/l Exposure time: 4 h Test atmosphere: dust/mist Acute toxicity (other routes of : LD50 (Rat): 59.4 - 185.3 mg/kg Application Route: Intraperitoneal LD50 (Mouse): 164 - 363 mg/kg Application Route: Intraperitoneal LD50 (Mouse): 164 - 363 mg/kg Application Route: Intraperitoneal Citric acid: Acute oral toxicity : LD50 (Mouse): 5,400 mg/kg Method: OECD Test Guideline 402 Assessment: The substance or mixture has no acute derma toxicity Skin corrosion/irritation Causes skin irritation. Components: Florfenicol: Species : Rabbit	1- 1-	deoxy-1-(methylamino)-D-	glu	citol 2-[2-methyl-3	-(perfluoromethyl)anilino]nicotinate:
LD50 (Guinea pig): 488.3 mg/kg LD50 (Monkey): 300 mg/kg Acute inhalation toxicity : LC50 (Rat): < 0.52 mg/l Exposure time: 4 h Test atmosphere: dust/mist Acute toxicity (other routes of : LD50 (Rat): 59.4 - 185.3 mg/kg Application Route: Intraperitoneal LD50 (Mouse): 164 - 363 mg/kg Application Route: Intraperitoneal LD50 (Mouse): 164 - 363 mg/kg Application Route: Intraperitoneal Citric acid: Acute oral toxicity : LD50 (Mouse): 5,400 mg/kg Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg Method: OECD Test Guideline 402 Assessment: The substance or mixture has no acute derma toxicity Skin corrosion/irritation Causes skin irritation. <u>Components:</u> Florfenicol: Species : Rabbit	Ac	cute oral toxicity	:	LD50 (Rat): 53 - 1	57 mg/kg
LD50 (Monkey): 300 mg/kg Acute inhalation toxicity : LC50 (Rat): < 0.52 mg/l Exposure time: 4 h Test atmosphere: dust/mist Acute toxicity (other routes of : LD50 (Rat): 59.4 - 185.3 mg/kg Application Route: Intraperitoneal LD50 (Mouse): 164 - 363 mg/kg Application Route: Intraperitoneal Citric acid: Acute oral toxicity : LD50 (Mouse): 5,400 mg/kg Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg Method: OECD Test Guideline 402 Assessment: The substance or mixture has no acute derma toxicity Skin corrosion/irritation Causes skin irritation. <u>Components:</u> Florfenicol: Species : Rabbit				LD50 (Mouse): 17	6 - 249 mg/kg
Acute inhalation toxicity : LC50 (Rat): < 0.52 mg/l Exposure time: 4 h Test atmosphere: dust/mist Acute toxicity (other routes of administration) : LD50 (Rat): 59.4 - 185.3 mg/kg Application Route: Intraperitoneal LD50 (Mouse): 164 - 363 mg/kg Application Route: Intraperitoneal LD50 (Mouse): 164 - 363 mg/kg Application Route: Intraperitoneal Citric acid: . Acute oral toxicity : LD50 (Mouse): 5,400 mg/kg Method: OECD Test Guideline 402 Assessment: The substance or mixture has no acute derma toxicity Skin corrosion/irritation Causes skin irritation. Components: Florfenicol: Florfenicol: : Species :				LD50 (Guinea pig): 488.3 mg/kg
Exposure time: 4 h Test atmosphere: dust/mist Acute toxicity (other routes of : LD50 (Rat): 59.4 - 185.3 mg/kg administration) Application Route: Intraperitoneal LD50 (Mouse): 164 - 363 mg/kg Application Route: Intraperitoneal Citric acid: Acute oral toxicity : LD50 (Mouse): 5,400 mg/kg Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg Method: OECD Test Guideline 402 Assessment: The substance or mixture has no acute derma toxicity Skin corrosion/irritation Causes skin irritation. Components: Florfenicol: Species : Rabbit				LD50 (Monkey): 3	00 mg/kg
administration) Application Route: Intraperitoneal LD50 (Mouse): 164 - 363 mg/kg Application Route: Intraperitoneal Citric acid: Acute oral toxicity : Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg Method: OECD Test Guideline 402 Assessment: The substance or mixture has no acute derma toxicity Skin corrosion/irritation Causes skin irritation. Components: Florfenicol: Species : Rabbit	Ac	cute inhalation toxicity	:	Exposure time: 4 I	h
Application Route: Intraperitoneal Citric acid: Acute oral toxicity : LD50 (Mouse): 5,400 mg/kg Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg Method: OECD Test Guideline 402 Assessment: The substance or mixture has no acute derma toxicity Skin corrosion/irritation Causes skin irritation. Components: Florfenicol: Species : Rabbit			:		
Acute oral toxicity : LD50 (Mouse): 5,400 mg/kg Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg Method: OECD Test Guideline 402 Assessment: The substance or mixture has no acute derma toxicity Skin corrosion/irritation Causes skin irritation. Components: Florfenicol: Species : Rabbit					
Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg Method: OECD Test Guideline 402 Assessment: The substance or mixture has no acute derma toxicity Skin corrosion/irritation Causes skin irritation. Components: Florfenicol: : Rabbit	Ci	tric acid:			
Method: OECD Test Guideline 402 Assessment: The substance or mixture has no acute derma toxicity Skin corrosion/irritation Causes skin irritation. Components: Florfenicol: Species : Rabbit	Ac	cute oral toxicity	:	LD50 (Mouse): 5,4	400 mg/kg
Causes skin irritation. <u>Components:</u> Florfenicol: Species : Rabbit	Ac	cute dermal toxicity	:	Method: OECD Te Assessment: The	est Guideline 402
Florfenicol: Species : Rabbit					
Species : Rabbit	<u>Co</u>	omponents:			
	FI	orfenicol:			
			:		

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N-Me Resu	ethyl-2-pyrrolidone: It	: Skin irritation	
1-dec	oxy-1-(methylamino)	D-glucitol 2-[2-methy	-3-(perfluoromethyl)anilino]nicotinate:
Spec Resu		: Rabbit : Mild skin irritatio	n
Citric	c acid:		
Spec Meth Resu	od	: Rabbit : OECD Test Gui : No skin irritatior	
	ous eye damage/eye es serious eye irritatio		
	ponents:		
	enicol:		
Spec Resu		: Rabbit : Mild eye irritatio	n
N-Me	thyl-2-pyrrolidone:		
Spec Resu		: Rabbit : Irritation to eyes	, reversing within 21 days
1-dec	oxy-1-(methylamino)·	D-glucitol 2-[2-methy	-3-(perfluoromethyl)anilino]nicotinate:
Spec	ies	: Rabbit	
Resu	lt	: Irreversible effe	cts on the eye
Citric	c acid:		
Spec		: Rabbit	
Meth Resu		: OECD Test Gui : Irritation to eyes	, reversing within 21 days
Resp	piratory or skin sensi	tisation	
-	sensitisation	ailable information.	
•	iratory sensitisation lassified based on ava	ailable information.	
Com	ponents:		
Florf	enicol:		
Test Spec Resu	ies	: Maximisation Te : Guinea pig : negative	est

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Test T	ure routes es d	:	Local lymph node assay (LLNA) Skin contact Mouse OECD Test Guideline 429 negative Based on data from similar materials
Test T	ype ure routes es sment	D-glu	acitol 2-[2-methyl-3-(perfluoromethyl)anilino]nicotinate: Maximisation Test Dermal Guinea pig Does not cause skin sensitisation. negative
Not cla	cell mutagenicity assified based on avail onents: nicol:	lable	information.
	oxicity 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
Genot	oxicity in vivo	:	Result: positive Test Type: Micronucleus test Species: Mouse Cell type: Bone marrow Application Route: Oral Result: negative
	hyl-2-pyrrolidone: oxicity in vitro	:	Test Type: Bacterial reverse mutation assay (AMES) Method: OECD Test Guideline 471 Result: negative Test Type: In vitro mammalian cell gene mutation test Method: OECD Test Guideline 476 Result: negative

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				A damage and repair, unscheduled DNA syn- nalian cells (in vitro) e
Geno	Genotoxicity in vivo		cytogenetic ass Species: Mouse Application Rou	e ute: Ingestion Test Guideline 474
			cytogenetic tes Species: Hams Application Rou	ute: Ingestion Test Guideline 475
1-dec	oxy-1-(methylamino)-	-D-glu	citol 2-[2-methy	/l-3-(perfluoromethyl)anilino]nicotinate:
	otoxicity in vitro	:		terial reverse mutation assay (AMES)
			Test Type: in vi Test system: m Result: positive	ouse lymphoma cells
				omosomal aberration hinese hamster ovary cells
			Test Type: in vi Test system: E Result: positive	scherichia coli
Geno	otoxicity in vivo	:	Test Type: Mich Species: Mouse Application Rou Result: negative	e ute: Oral
	n cell mutagenicity - ssment	:	Weight of evide cell mutagen.	nce does not support classification as a germ
II Citric	c acid:			
	otoxicity in vitro	:	Test Type: Bac Result: negative	terial reverse mutation assay (AMES) e
			Test Type: in vi Result: positive	tro micronucleus test
			Test Type: Bac Result: negative	terial reverse mutation assay (AMES) e
Geno	otoxicity in vivo	:	Test Type: Mut	agenicity (in vivo mammalian bone-marrow

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		cytogenetic test Species: Rat Application Rou Result: negative	
	i nogenicity lassified based on av	ailable information	
	ponents:		
Florfe	enicol:		
Expo Resu	cation Route sure time	: Rat : oral (gavage) : 2 Years : negative : Liver, Testes	
Expo Resu	cation Route sure time	: Mouse : oral (gavage) : 2 Years : negative : Testes, Blood	
N-Me	thyl-2-pyrrolidone:		
	cation Route sure time	: Rat : Ingestion : 2 Years : negative	
	cation Route sure time	: Rat : inhalation (vapo : 2 Years : negative	ur)
1-dec	oxy-1-(methylamino)	-D-alucitol 2-[2-methyl	-3-(perfluoromethyl)anilino]nicotinate:
Speci Applic Expos LOAE Resu	ies cation Route sure time EL It et Organs	: Rat : oral (feed) : 104 w : 2 mg/kg body w : negative : Gastrointestinal	eight
Expo NOA Resu	cation Route sure time EL It ot Organs	 Mouse oral (feed) 97 w 0.6 mg/kg body negative Gastrointestinal Significant toxicities 	-

according to the Globally Harmonized System



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Reproductive toxicity

May damage the unborn child. Suspected of damaging fertility.

Components:

Florfenicol:		
Effects 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
Effects on foetal develop- ment	:	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
Reproductive toxicity - As- sessment	:	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-Methyl-2-pyrrolidone:		
Effects on fertility	:	Test Type: Two-generation reproduction toxicity study Species: Rat Application Route: Ingestion Method: OECD Test Guideline 416 Result: negative
Effects on foetal develop- ment	:	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) Result: positive
		Test Type: Embryo-foetal development Species: Rabbit

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Repro	oductive toxicity - As- nent	Result: positiv	e of adverse effects on development, based on
II 1-dec	oxy-1-(methylamino)-D	-alucitol 2-[2-meth	yl-3-(perfluoromethyl)anilino]nicotinate:
	ts on fertility	: Test Type: Tw Species: Rat Application Re General Toxic Symptoms: N	vo-generation reproduction toxicity study oute: Oral city - Parent: LOAEL: 1 - 1.5 mg/kg body weight o foetal abnormalities ects on fertility and early embryonic develop-
Effec ment	ts on foetal develop-	Embryo-foeta Result: Embry spring were d	
		Species: Rab Application Re General Toxic Embryo-foeta Result: Embry	bit
Citric	acid:		
Effec ment	ts on foetal develop-	Species: Rat	ne-generation reproduction toxicity study oute: Ingestion ive
May	F - single exposure cause respiratory irritation	on.	
Com	ponents:		
	sthyl-2-pyrrolidone: ssment	: May cause re	spiratory irritation.
	oxy-1-(methylamino)-D ssment		nyl-3-(perfluoromethyl)anilino]nicotinate: spiratory irritation.
	: acid: ssment	: May cause re	spiratory irritation.

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Caus longe May o posur <u>Com</u>	d or repeated exposure cause damage to organ	Liver, Brain, Testis, S e. ns (Gastrointestinal t	Spinal cord, Blood, gallbladder) through pro- ract, Kidney) through prolonged or repeated ex- restis, Spinal cord, Blood, gallbladder
Asses	ssment	exposure.	ge to organs through prolonged or repeated
Targe	et Organs ssment	: Gastrointestin	al tract, Kidney, Blood ge to organs through prolonged or repeated
-	ated dose toxicity ponents:		
	enicol:		
Speci NOAI Expos	ies	: Dog : 3 mg/kg : 13 Weeks : Liver, Testis, I	Brain, Spinal cord
		: Mouse : 200 mg/kg : 13 Weeks : Liver, Testis	
Speci NOAI Expos Targe		: Rat : 30 mg/kg : 13 Weeks : Liver, Testis	
	EL	: Dog : 3 mg/kg : 12 mg/kg : 52 Weeks : Liver, gallblad	der
	ΞL	: Rat : 1 mg/kg : 3 mg/kg : 52 Weeks : Testis	

Rat, male

:

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	ation Route sure time	: 433 mg/kg : Ingestion : 90 Days : OECD Test Gu	ideline 408				
Species NOAEL LOAEL Application Route Exposure time Method		: 96 Days	: 0.5 mg/l : 1 mg/l : inhalation (dust/mist/fume)				
	EL	: Rabbit : 826 mg/kg : 1,653 mg/kg : Skin contact : 20 Days					
Specie NOAE LOAE Applic Expos	es EL	D-glucitol 2-[2-methy Rat 2 mg/kg < 4 mg/kg Oral 6 w Gastrointestina	r I-3-(perfluoromethyl)anilino]nicotinate: I tract				
Expos		: Rat : 1 mg/kg : Oral : 1 y : Gastrointestina	l tract, Kidney				
Expos		: Monkey : 15 mg/kg : Oral : 90 d : Gastrointestina	l tract, Blood				
	L ation Route sure time	: Rabbit : 80 mg/kg : Dermal : 21 d : Severe irritatior	ı				
Expos	L cation Route sure time t Organs	: Dog : 11 mg/kg : Oral : 9 d : Gastrointestina : Vomiting	l tract				
Citric Specie		: Rat					

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NOAEL : LOAEL : Application Route : Exposure time :		: 4,000 : 8,000 : Ingesti : 10 Day	mg/kg ion			
-	ation toxicity assified based on ava	lable informa	tion.			
-	rience with human ex	posure				
N-Me	<u>Components:</u> N-Methyl-2-pyrrolidone:					
Skin contact : Symptoms: Skin irritation						
1-deoxy-1-(methylamino)-D-glucitol 2-[2-methyl-3-(perfluoromethyl)aInhalation:Skin contact:Symptoms: Skin irritationEye contact:Ingestion:Symptoms: Gastrointestinal disturbance sion, Kidney disorders			ratory tract irritation irritation ere irritation rointestinal disturbance, bleeding, hyperten-			
12. ECOL	OGICAL INFORMATI	ON				
Ecoto	oxicity					
Com	oonents:					
Florfe	enicol:					
Toxic	ity to fish	Expos	(Lepomis n ure time: 9 d: FDA 4.1			
		Expos	(Oncorhynd ure time: 9 d: FDA 4.1			

Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): > 330 mg/l Exposure time: 48 h Method: OECD Test Guideline 202
Toxicity to algae/aquatic plants	:	EC50 (Pseudokirchneriella subcapitata (green algae)): > 2.9 mg/l Exposure time: 14 d Method: FDA 4.01
		NOEC (Pseudokirchneriella subcapitata (green algae)): 2.9 mg/l Exposure time: 14 d Method: FDA 4.01
		IC50 (Skeletonema costatum (marine diatom)): 0.0336 mg/l Exposure time: 72 h Method: ISO 10253

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			NOEC (Skeleto mg/l Exposure time: Method: ISO 10	
			Exposure time:	gibba (gibbous duckweed)): 0.76 mg/l 7 d Test Guideline 221
			Exposure time:	gibba (gibbous duckweed)): 0.39 mg/l 7 d Test Guideline 221
			Exposure time:	a pelliculosa (Freshwater diatom)): 61 mg 72 h Test Guideline 201
			Exposure time:	la pelliculosa (Freshwater diatom)): 19 m 72 h Test Guideline 201
			Exposure time:	na flos-aquae): 0.066 mg/l 72 h Test Guideline 201
			Exposure time:	ena flos-aquae): 0.051 mg/l 72 h Test Guideline 201
M-Fac icity)	ctor (Acute aquatic tox-	:	10	
Toxici icity)	ty to fish (Chronic tox-	:	Exposure time: Species: Pimep	
	ty to daphnia and other ic invertebrates (Chron- city)	:		
M-Fac toxicity	ctor (Chronic aquatic y)	:	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 ic invertebrates	:	EC50 (Daphnia Exposure time: Method: DIN 38	

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	xicity to algae/aquatic nts	:	ErC50 (Desmode mg/l Exposure time: 72	esmus subspicatus (green algae)): 600.5 ? h
			EC10 (Desmodes Exposure time: 72	smus subspicatus (green algae)): 92.6 mg/l ? h
To	xicity to microorganisms	:	EC50: > 600 mg/l Exposure time: 30 Method: ISO 8192	
aq	xicity to daphnia and other uatic invertebrates (Chron- oxicity)		Exposure time: 21	magna (Water flea)
1-c	leoxy-1-(methylamino)-D-	-alu	citol 2-[2-methyl-3	-(perfluoromethyl)anilino]nicotinate:
	xicity to fish	:		acrochirus (Bluegill sunfish)): 28 mg/l
			LC50 (Oncorhync Exposure time: 96 Method: FDA 4.11	
	xicity to daphnia and other uatic invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: FDA 4.08	
	xicity to algae/aquatic nts	:	NOEC (Microcyst Exposure time: 13 Method: FDA 4.01	
			NOEC (Selenastr Exposure time: 12	rum capricornutum (green algae)): 96 mg/l 2 d
II Cit	ric acid:			
	xicity to fish	:	LC50 (Pimephales Exposure time: 96	s promelas (fathead minnow)): > 100 mg/l b h
	xicity to daphnia and other uatic invertebrates	:	EC50 (Daphnia m Exposure time: 24	agna (Water flea)): 1,535 mg/l I h
II Pe	rsistence and degradabil	itv		
	mponents:			
	Methyl-2-pyrrolidone:			
	degradability	:	Result: Readily bio Biodegradation: 7 Exposure time: 28 Method: OECD Te	73 %

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II							
		-glu		3-(perfluoromethyl)anilino]nicotinate:			
Stabi	lity in water	:	Hydrolysis: 0 %(2	(8 d)			
Citrie	Citric acid:						
Biode	Biodegradability		Result: Readily biodegradable. Biodegradation: 97 % Exposure time: 28 d Method: OECD Test Guideline 301B				
Bioa	ccumulative potential						
<u>Com</u>	ponents:						
Florf	enicol:						
	tion coefficient: n- nol/water	:	log Pow: 0.373 pH: 7				
N-Me	ethyl-2-pyrrolidone:						
	tion coefficient: n- nol/water	:	log Pow: -0.46 Method: OECD T	est Guideline 107			
1-de	oxy-1-(methylamino)-D	-glu	citol 2-[2-methyl-3	3-(perfluoromethyl)anilino]nicotinate:			
	tion coefficient: n- nol/water	:	log Pow: 1.34				
Citrie	c acid:						
	tion coefficient: n- nol/water	:	log Pow: -1.72				
	ility in soil						
Com	ponents:						
Florf	enicol:						
	bution among environ- al compartments	:	Koc: 52 Method: FDA 3.08	8			
1-de	oxy-1-(methylamino)-D	-glu	citol 2-[2-methyl-3	3-(perfluoromethyl)anilino]nicotinate:			
	bution among environ- al compartments	:	log Koc: 1.92				
	r adverse effects ata available						

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13. DISPOSAL CONSIDERATIONS

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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.

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	:	no
IATA-DGR		
UN/ID No.	:	UN 3082
Proper shipping name	:	Environmentally hazardous substance, liquid, n.o.s. (Florfenicol)
Class	:	9
Packing group	:	III
Labels	:	Miscellaneous
Packing instruction (cargo aircraft)	:	964
Packing instruction (passen- ger aircraft)	:	964
IMDG-Code		
UN number	:	UN 3082
Proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Florfenicol)
Class		9
Packing group	÷	а Ш
Labels	÷	9
EmS Code	÷	F-A, S-F
Marine pollutant	:	yes

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 Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

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15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

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

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

16. OTHER INFORMATION

Revision Date	:	28.09.2024
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 abbreviations

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

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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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