UK REACH Regulations SI 2019/758



Florfenicol / Flunixin Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 06.04.2024
3.4	28.09.2024	9371411-00009	Date of first issue: 27.08.2021

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1	Product identifier Trade name	:	Florfenicol / Flunixin Formulation
1.2	Relevant identified uses of th	ne s	ubstance or mixture and uses advised against
	Use of the Sub- stance/Mixture		Veterinary product
	Recommended restrictions on use	:	Not applicable
1.3	Details of the supplier of the	saf	ety data sheet
	Company	:	MSD Walton Manor, Walton MK7 7AJ Milton Keynes - United Kingdom
	Telephone	:	+1-908-740-4000
	E-mail address of person responsible for the SDS	:	EHSDATASTEWARD@msd.com

1.4 Emergency telephone number

+1-908-423-6000

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)

Acute toxicity, Category 4 Eye irritation, Category 2 Reproductive toxicity, Category 1B	H332: Harmful if inhaled. H319: Causes serious eye irritation. H360FD: May damage fertility. May damage the
	unborn child.
Specific target organ toxicity - repeated exposure, Category 1	H372: Causes damage to organs through pro- longed or repeated exposure.
Short-term (acute) aquatic hazard, Cate- gory 1	H400: Very toxic to aquatic life.
Long-term (chronic) aquatic hazard, Cat- egory 1	H410: Very toxic to aquatic life with long lasting effects.

UK REACH Regulations SI 2019/758



Florfenicol / Flunixin Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 06.04.2024
3.4	28.09.2024	9371411-00009	Date of first issue: 27.08.2021

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)

Hazard pictograms :		
Signal word :	Danger	• •
Hazard statements :	H319 H332 H360FD H372 H410	Causes serious eye irritation. Harmful if inhaled. May damage fertility. May damage the unborn child. Causes damage to organs through prolonged or repeated exposure. Very toxic to aquatic life with long lasting effects.
Precautionary statements :	Prevention P201 P273 P280	Contain special instructions before use. Avoid release to the environment. Wear protective gloves/ protective clothing/ eye protection/ face protection.
	Response : P308 + P3 ⁴ P337 + P3 ⁴ P391	13 IF exposed or concerned: Get medical advice/ attention.

Hazardous components which must be listed on the label: 2-Pyrrolidone Florfenicol

1-deoxy-1-(methylamino)-D-glucitol 2-[2-methyl-3-(perfluoromethyl)anilino]nicotinate

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
---------------	---	----------------	--------------------------

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



Florfenicol / Flunixin Formulation

/ersion 3.4		SDS Number: 9371411-00009	Date of last issue: 06.04.2024 Date of first issue: 27.08.2021	
Plorfe	rolidone	616-45-5	Repr. 2; H361fd STOT RE 1; H372 (Liver, Brain, Tes- tis, Spinal cord, Blood, gallbladder) Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 10 M-Factor (Chronic aquatic toxicity): 10 Eye Irrit. 2; H319	>= 20 - < 25
2-r yi	TUILUUTE	210-483-1	Repr. 1B; H360FD specific concentra- tion limit Repr. 1B; H360FD > 3 % Repr. 1B; H360FD > 3 %	20-< 30
Malic	Acid	6915-15-7 230-022-8	Eye Irrit. 2; H319	>= 1 - < 10
2-[2-r	oxy-1-(methylamino)-D-glu nethyl-3- uoromethyl)anilino]nicotina	255-836-0	Acute Tox. 3; H301 Acute Tox. 2; H330 Eye Dam. 1; H318 STOT SE 3; H335 STOT RE 1; H372 (Gastrointestinal tract, Kidney, Blood) Aquatic Chronic 2; H411	>= 1 - < 2.5

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of 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.
Protection of first-aiders	:	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).



Version 3.4	Revision Date: 28.09.2024		OS Number: 71411-00009	Date of last issue: 06.04.2024 Date of first issue: 27.08.2021
lf inh	aled	:		ive artificial respiration. cult, give oxygen.
In ca	ise of skin contact	:	of water. Remove contamir Get medical atten Wash clothing be	
In ca	se of eye contact	:	for at least 15 mir	ove contact lens, if worn.
lf sw	allowed	:	Get medical atten Rinse mouth thor	NOT induce vomiting. tion. oughly with water. ng by mouth to an unconscious person.
4.2 Most	important symptoms a	nd e	effects, both acute	and delayed
Risk	S	:		
4.3 Indica	ation of any immediate	meo	dical attention and	special treatment needed
Trea	tment	:	Treat symptomati	cally and supportively.
SECTIO	N 5: Firefighting meas	sur	es	
5.1 Extin	guishing media			
	able extinguishing media	:	Water spray Alcohol-resistant Carbon dioxide (C Dry chemical	
Unsu med	uitable extinguishing ia	:	None known.	
5.2 Spec	ial hazards arising from	the	e substance or mi	xture
-	cific hazards during fire-	:		pustion products may be a hazard to health.
Haza ucts	ardous combustion prod-	:	Carbon oxides Fluorine compour	nds

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



Florfenicol / Flunixin Formulation

Version 3.4	Revision Date: 28.09.2024	SDS Number: 9371411-00009		Date of last issue: 06.04.2024 Date of first issue: 27.08.2021
			Nitrogen oxides (NOx)
Specia for fire	for firefighters al protective equipment fighters ic extinguishing meth-	:	Use personal pro Use extinguishing cumstances and Use water spray	e, wear self-contained breathing apparatus. tective equipment. g measures that are appropriate to local cir- the surrounding environment. to cool unopened containers. ged containers from fire area if it is safe to do

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions	:	Use personal protective equipment.
		Follow safe handling advice (see section 7) and personal pro-
		tective equipment recommendations (see section 8).

6.2 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. If spillage enters rivers or watercourses, inform the Environ- ment Agency (emergency telephone number 0800 807060).
---------------------------	---	---

6.3 Methods and material for containment and cleaning up

Methods for cleaning up	:	Soak up with inert absorbent material. For large spills, provide dyking or other appropriate contain- ment to keep material from spreading. If dyked material can be pumped, store recovered material in appropriate container Clean up remaining materials from spill with suitable absor- bent.			
		Local or national regulations may apply to releases and dis- posal of this material, as well as those materials and items employed in the cleanup of releases. You will need to deter- mine which regulations are applicable. Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.			

6.4 Reference to other sections

See sections: 7, 8, 11, 12 and 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



Florfenicol / Flunixin Formulation

Vers 3.4	sion	Revision Date: 28.09.2024	SDS Number:Date of last issue: 06.04.20249371411-00009Date of first issue: 27.08.2021				
Technical measures		cal measures	: See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.				
		on safe handling	If sufficient ventilation is unavailable, use with local exhaus ventilation. Do not get on skin or clothing. Do not breathe mist or vapours. Do not swallow. Do not get in eyes. Wash skin thoroughly after handling. Handle in accordance with good industrial hygiene and safe practice, based on the results of the workplace exposure as sessment Keep container tightly closed. Do not eat, drink or smoke when using this product. Take care to prevent spills, waste and minimize release to				
	Hygien	e measures	 environment. If exposure to chemical is likely during typical use, provide of flushing systems and safety showers close to the working place. When using do not eat, drink or smoke. Wash contar nated 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 use of administrative controls. 	ni-			
7.2	Conditi	ons for safe storage,	including any incompatibilities				
	•	ements for storage and containers	: Keep in properly labelled containers. Store locked up. Keep tightly closed. Keep in a cool, well-ventilated place. Store in accordance with the particular national regulations.				
	Advice	on common storage	 Do not store with the following product types: Strong oxidizing agents Self-reactive substances and mixtures Organic peroxides Explosives Gases 				
7.3	Specific	c end use(s)					
-	-		· No data available				

Specific use(s)

: No data available

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Florfenicol	73231-34-2	TWA	100 µg/m3 (OEB 2)	Internal
1-deoxy-1-	42461-84-7	TWA	40 µg/m3 (OEB 3)	Internal
(methylamino)-D-				

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



Florfenicol / Flunixin Formulation

Version 3.4	Revision Da 28.09.2024		Number: 411-00009	Date of last issue: 06.04.20 Date of first issue: 27.08.20	
methy (perfl	ol 2-[2- yl-3- uorome- nilino]nicotina				
		Further inform	ation: Skin		
			Wipe limit	400 µg/100 cm ²	Internal

Derived No Effect Level (DNEL)

Substance name	End Use	Exposure routes	Potential health ef- fects	Value
triacetin	Workers	Inhalation	Long-term systemic effects	35.275 mg/m3
	Workers	Skin contact	Long-term systemic effects	5 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	8.7 mg/m3
	Consumers	Skin contact	Long-term systemic effects	2.5 mg/kg bw/day
	Consumers	Ingestion	Long-term systemic effects	2.5 mg/kg bw/day
2-Pyrrolidone	Workers	Inhalation	Long-term systemic effects	57.8 mg/m3
	Workers	Skin contact	Long-term systemic effects	10 mg/kg bw/day
	Workers	Skin contact	Acute systemic ef- fects	277 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	17.1 mg/m3
	Consumers	Skin contact	Long-term systemic effects	6 mg/kg bw/day
	Consumers	Skin contact	Acute systemic ef- fects	167 mg/kg bw/day
	Consumers	Ingestion	Long-term systemic effects	5.2 mg/kg bw/day
	Consumers	Ingestion	Acute systemic ef- fects	33.3 mg/kg bw/day
Malic Acid	Workers	Inhalation	Long-term systemic effects	36.6 mg/m3
	Workers	Skin contact	Long-term systemic effects	5.2 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	9 mg/m3
	Consumers	Skin contact	Long-term systemic effects	2.6 mg/kg bw/day
	Consumers	Ingestion	Long-term systemic effects	2.6 mg/kg bw/day

Predicted No Effect Concentration (PNEC)

Substance name	Environmental Compartment	Value
triacetin	Fresh water	1.88 mg/l

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



Florfenicol / Flunixin Formulation

Version 3.4	Revision Date: 28.09.2024	SDS Number: 9371411-00009	Date of last issue: 06 Date of first issue: 27	
			Marine water Intermittent use/release Sewage treatment plant	
	2-Pyrrolidone		Fresh water sediment Marine sediment Soil	
2-Pyr			ry Poisoning)	69.9 mg/kg food 0.5 mg/l 0.5 mg/l
			nent plant	0.05 mg/l 10 mg/l 0.4205 mg/kg dry
				weight (d.w.) 0.0612 mg/kg dry weight (d.w.)

8.2 Exposure controls

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 containment devices).

Minimize open handling.

Personal protective equipment

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.
Material	:	Chemical-resistant gloves
Remarks Skin and body protection	:	Consider double gloving. 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.
Respiratory protection	:	If adequate local exhaust ventilation is not available or expo- sure assessment demonstrates exposures outside the rec- ommended guidelines, use respiratory protection. Equipment should conform to BS EN 14387
Filter type	:	Combined particulates and organic vapour type (A-P)



Florfenicol / Flunixin Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 06.04.2024
3.4	28.09.2024	9371411-00009	Date of first issue: 27.08.2021

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

9.1	Appearance	an	
	Appearance Colour Odour		liquid yellow 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
	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	:	1.22
	Density	:	No data available
	Solubility(ies)		
	Water solubility Partition coefficient: n- octanol/water	:	No data available Not applicable
	Auto-ignition temperature	:	No data available
	Decomposition temperature	:	No data available
	Viscosity Viscosity, kinematic	:	No data available
	Explosive properties	:	Not explosive
	Oxidizing properties	:	The substance or mixture is not classified as oxidizing.
9.2	Other information		
	Flammability (liquids)	:	No data available

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



Florfenicol / Flunixin Formulation

Version 3.4	Revision Date: 28.09.2024		S Number: 71411-00009	Date of last issue: 06.04.2024 Date of first issue: 27.08.2021					
Mole	cular weight	:	No data availabl	e					
Partic	cle size	:	Not applicable						
SECTION 10: Stability and reactivity									
10.1 Read Not c	stivity lassified as a reactivity l	haza	rd.						
	nical stability e under normal conditio	ns.							
10.3 Poss	bility of hazardous re	actio	ons						
Haza	rdous reactions	:	Can react with s	trong oxidizing agents.					
10.4 Cond	ditions to avoid								
	litions to avoid	:	None known.						
10.5 Inco	mpatible materials								
Mate	rials to avoid	:	Oxidizing agents	3					
10.6 Haza	rdous decomposition	proc	lucts						
No ha	azardous decompositior	n proo	ducts are known.						
SECTION	N 11: Toxicological i	nfor	mation						
11.1 Infor	mation on toxicologic	al eff	ects						
	mation on likely routes o	of :	Inhalation						
expo	sure		Skin contact Ingestion						
			Eye contact						
	e toxicity ıful if inhaled.								
Prod Acute	uct: e oral toxicity	:	Acute toxicity est Method: Calculat	imate: > 2,000 mg/kg ion method					
Acute	e inhalation toxicity	:	Acute toxicity est Exposure time: 4 Test atmosphere Method: Calculat	h : dust/mist					

Components:

Florfenicol:

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



Vers 3.4	ion	Revision Date: 28.09.2024		S Number: 71411-00009	Date of last issue: 06.04.2024 Date of first issue: 27.08.2021
	Acute oral toxicity		:	LD50 (Rat): > 2,00	00 mg/kg
				LD50 (Mouse): > 2,000 mg/kg	
				LD50 (Dog): > 1,2	80 mg/kg
	Acute i	nhalation toxicity	:	LC50 (Rat): > 0.28 Exposure time: 4 I	
	Acute o	dermal toxicity	:	Remarks: No data	available
		oxicity (other routes of stration)	:	LD50 (Rat): 1,913 Application Route	
				LD50 (Mouse): 10 Application Route	
	2-Pyrro	olidone:			
	Acute o	oral toxicity	:	LD50 (Rat): > 2,00 Method: OECD Te Assessment: The icity	
	Acute o	dermal toxicity	:	LD50 (Rabbit): > 2 Method: OECD Te Assessment: The toxicity	
	Malic A	Acid:			
	Acute o	oral toxicity	:	LD50 (Rat): 3,500	mg/kg
	Acute o	dermal toxicity	:	LD50 (Rabbit): > 5 Remarks: Based o	5,000 mg/kg on data from similar materials
		x y-1-(methylamino)-D- oral toxicity	gluo :	citol 2-[2-methyl-3 LD50 (Rat): 53 - 1	-(perfluoromethyl)anilino]nicotinate: 57 mg/kg
				LD50 (Mouse): 17	6 - 249 mg/kg
				LD50 (Guinea pig): 488.3 mg/kg
				LD50 (Monkey): 3	00 mg/kg
	Acute i	nhalation toxicity	:	LC50 (Rat): < 0.52 Exposure time: 4 I Test atmosphere:	า
		oxicity (other routes of stration)	:	LD50 (Rat): 59.4 - Application Route	
				LD50 (Mouse): 16	4 - 363 mg/kg

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



ersion 1	Revision Date: 28.09.2024		umber: 11-00009	Date of last issue: 06.04.2024 Date of first issue: 27.08.2021
		Ap	olication Route	e: Intraperitoneal
Skin d	corrosion/irritation			
Not cl	assified based on ava	ilable info	mation.	
Comp	oonents:			
Florfe	enicol:			
Speci	es	: Ra	bbit	
Resul		: No	skin irritation	
2-Pyr	rolidone:			
Speci	es	: Ra	bbit	
Metho	bd	: OE	CD Test Guid	eline 404
Resul	t	: No	skin irritation	
Malic	Acid:			
Speci			bbit	
Metho		-	CD Test Guid	eline 404
Resul Rema	-	: No skin irritation : Based on data from similar materials		am similar matariala
Rema	11K5	. Da	seu un uala in	
		-		3-(perfluoromethyl)anilino]nicotinate
Speci		: Rabbit		
Resul	t	: Mil	d skin irritatior	1
Serio	us eye damage/eye i	rritation	d skin irritatior	1
Serio Cause	us eye damage/eye i es serious eye irritatio	rritation	d skin irritatior	1
Serio Cause <u>Comp</u>	us eye damage/eye i es serious eye irritatio ponents:	rritation	d skin irritatior	1
Serio Cause <u>Comp</u> Florfe	us eye damage/eye i es serious eye irritatio ponents: enicol:	rritation າ.		1
Serio Cause <u>Comp</u> Florfe Specie	us eye damage/eye i es serious eye irritatio ponents: enicol: es	rritation n. : Ra	bbit	
Serio Cause <u>Comp</u> Florfe	us eye damage/eye i es serious eye irritatio ponents: enicol: es	rritation n. : Ra		
Serio Cause <u>Comp</u> Florfe Specie Resul	us eye damage/eye i es serious eye irritatio ponents: enicol: es	rritation n. : Ra	bbit	
Serio Cause <u>Comp</u> Florfe Specie Resul 2-Pyr Specie	us eye damage/eye i es serious eye irritatio <u>conents:</u> enicol: es t rolidone: es	rritation n. : Ra : Mil	bbit	
Serio Cause <u>Comp</u> Florfe Speci- Resul 2-Pyr	us eye damage/eye i es serious eye irritatio <u>conents:</u> enicol: es t rolidone: es	rritation n. : Ra : Mil : Ra	bbit d eye irritation bbit	
Serio Cause <u>Comp</u> Florfe Specie Resul Specie Resul	us eye damage/eye i es serious eye irritatio <u>conents:</u> enicol: es t rolidone: es	rritation n. : Ra : Mil : Ra	bbit d eye irritation bbit	
Serio Cause <u>Comp</u> Florfe Specie Resul Specie Resul	us eye damage/eye i es serious eye irritatio ponents: enicol: es t rolidone: es t Acid:	rritation n. : Ra : Mil : Ra : Irrit	bbit d eye irritation bbit	
Serio Cause <u>Comp</u> Florfe Specie Resul 2-Pyr Specie Resul Malic Specie Metho	us eye damage/eye i es serious eye irritatio <u>ponents:</u> enicol: es t rolidone: es t Acid: es od	rritation n. : Ra : Mil : Ra : Irrit : Ra : OE	bbit d eye irritation bbit ation to eyes, bbit CD Test Guid	reversing within 7 days eline 405
Serio Cause Comp Florfe Specia Resul Specia Resul Malic Specia Metho Resul	us eye damage/eye i es serious eye irritatio <u>ponents:</u> enicol: es t rolidone: es t Acid: es od	rritation n. : Ra : Mil : Ra : Irrit : Ra : OE : Irrit	bbit d eye irritation bbit ation to eyes, bbit CD Test Guid ation to eyes,	reversing within 7 days eline 405 reversing within 21 days
Serio Cause <u>Comp</u> Florfe Specie Resul 2-Pyr Specie Resul Malic Specie Metho	us eye damage/eye i es serious eye irritatio <u>ponents:</u> enicol: es t rolidone: es t Acid: es od	rritation n. : Ra : Mil : Ra : Irrit : Ra : OE : Irrit	bbit d eye irritation bbit ation to eyes, bbit CD Test Guid ation to eyes,	reversing within 7 days eline 405
Serio Cause Comp Florfe Specie Resul Specie Resul Malic Specie Resul Resul Rema	us eye damage/eye i es serious eye irritatio <u>ponents:</u> enicol: es t rolidone: es t Acid: es pd t irks	rritation n. : Ra : Mil : Ra : Irrit : Ra : OE : Irrit : Bas D-glucito	bbit d eye irritation bbit cation to eyes, bbit CD Test Guid ation to eyes, sed on data fro	reversing within 7 days eline 405 reversing within 21 days
Serio Cause Comp Florfe Specie Resul Specie Resul Malic Specie Metho Resul Resul	us eye damage/eye i es serious eye irritatio <u>ponents:</u> enicol: es t rolidone: es t Acid: es pd t t urks exy-1-(methylamino)- es	rritation n. : Ra : Mil : Ra : Irrit : Ra : OE : Irrit : Bas D-glucito : Ra	bbit d eye irritation bbit ation to eyes, bbit CD Test Guid ation to eyes, sed on data fre	reversing within 7 days eline 405 reversing within 21 days om similar materials 3-(perfluoromethyl)anilino]nicotinate

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



Florfenicol / Flunixin Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 06.04.2024
3.4	28.09.2024	9371411-00009	Date of first issue: 27.08.2021

Respiratory or skin sensitisation

Skin sensitisation

Not classified based on available information.

Respiratory sensitisation

Not classified based on available information.

Components:

Florfenicol:Test Type:Maximisation TestSpecies:Guinea pigResult:negative

2-Pyrrolidone:

Local lymph node assay (LLNA)
Skin contact
Mouse
OECD Test Guideline 429
negative
Based on data from similar materials

Malic Acid:

Test Type :	Maximisation Test
Exposure routes :	Skin contact
	Guinea pig
Method :	OECD Test Guideline 406
Result :	negative
Remarks :	Based on data from similar materials

1-deoxy-1-(methylamino)-D-glucitol 2-[2-methyl-3-(perfluoromethyl)anilino]nicotinate:

Test Type :	Maximisation Test
Exposure routes :	Dermal
Species :	Guinea pig
Assessment :	Does not cause skin sensitisation.
Result :	negative

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

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



Version 3.4	Revision Date: 28.09.2024	SDS Number: 9371411-00009	Date of last issue: 06.04.2024 Date of first issue: 27.08.2021
		Result: negativ	e
			itro mammalian cell gene mutation test iouse lymphoma cells e
			omosome aberration test in vitro hinese hamster ovary cells
Geno	toxicity in vivo	: Test Type: Mick Species: Mouse Cell type: Bone Application Rou Result: negativ	e e marrow ute: Oral
2-Pyr	rolidone:		
Geno	toxicity in vitro	: Test Type: Bac Result: negativ	terial reverse mutation assay (AMES) e
		Method: OECD Result: negativ	itro mammalian cell gene mutation test Test Guideline 476 e ed on data from similar materials
			omosome aberration test in vitro Test Guideline 473 e
Geno	toxicity in vivo	cytogenetic ass Species: Mous Application Rou	e ute: Intraperitoneal injection 9 Test Guideline 474
Malic	Acid:		
Geno	toxicity in vitro	: Test Type: Bac Result: negativ	terial reverse mutation assay (AMES) e
		Method: OECD Result: negativ	itro mammalian cell gene mutation test 9 Test Guideline 476 e ed on data from similar materials
		Result: negativ	omosome aberration test in vitro e ed on data from similar materials
	oxy-1-(methylamino) toxicity in vitro		vI-3-(perfluoromethyl)anilino]nicotinate: eterial reverse mutation assay (AMES)

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



rsion	Revision Date: 28.09.2024	SDS Number: 9371411-00009	Date of last issue: 06.04.2024 Date of first issue: 27.08.2021
		Result: negativ	e
		Test Type: in v Test system: m Result: positive	ouse lymphoma cells
			omosomal aberration hinese hamster ovary cells
		Test Type: in v Test system: E Result: positive	scherichia coli
Geno	toxicity in vivo	: Test Type: Mic Species: Mous Application Rou Result: negativ	e ute: Oral
Germ sessn	cell mutagenicity- As- nent	: Weight of evide cell mutagen.	ence does not support classification as a gern
	nogenicity assified based on avail	able information	
Not cl	nogenicity assified based on avail ponents:	able information.	
Not cl <u>Comp</u>	assified based on avail	able information.	
Not cl <u>Comp</u>	assified based on avail ponents: enicol:	able information.	
Not cl Comp Florfe Speci Applic	assified based on avail ponents: enicol: es cation Route		
Not cl Comp Florfe Speci Applic Expos	assified based on avail ponents: enicol: es cation Route sure time	: Rat : oral (gavage) : 2 Years	
Not cl Comp Florfe Speci Applic Expos Resul	assified based on avail <u>conents:</u> enicol: es cation Route sure time t	: Rat : oral (gavage) : 2 Years : negative	
Not cl Comp Florfe Speci Applic Expos Resul	assified based on avail ponents: enicol: es cation Route sure time	: Rat : oral (gavage) : 2 Years	
Not cl Comp Florfe Speci Applic Expos Resul Targe Speci	assified based on avail conents: enicol: es cation Route sure time t t Organs es	: Rat : oral (gavage) : 2 Years : negative : Liver, Testes : Mouse	
Not cl Comp Florfe Speci Applic Expos Resul Targe Speci Applic	assified based on avail conents: enicol: es cation Route sure time t t Organs es cation Route	: Rat : oral (gavage) : 2 Years : negative : Liver, Testes : Mouse : oral (gavage)	
Not cl Comp Florfe Speci Applic Expos Resul Targe Speci Applic Expos	assified based on avail conents: enicol: es cation Route sure time t t Organs es cation Route sure time	: Rat : oral (gavage) : 2 Years : negative : Liver, Testes : Mouse : oral (gavage) : 2 Years	
Not cl Comp Florfe Speci Applic Expos Resul Targe Speci Applic Expos Resul Resul	assified based on avail conents: enicol: es cation Route sure time t t Organs es cation Route sure time	: Rat : oral (gavage) : 2 Years : negative : Liver, Testes : Mouse : oral (gavage)	
Not cl Comp Florfe Speci Applic Expos Resul Targe Speci Applic Expos Resul Targe	assified based on avail ponents: enicol: es cation Route sure time t t Organs es cation Route sure time t t	 Rat oral (gavage) 2 Years negative Liver, Testes Mouse oral (gavage) 2 Years negative 	
Not cl Comp Florfe Speci Applic Expos Resul Targe Speci Applic Expos Resul Targe 2-Pyr Speci	assified based on avail ponents: enicol: es cation Route sure time t t Organs es cation Route sure time t t Organs rolidone: es	 Rat oral (gavage) 2 Years negative Liver, Testes Mouse oral (gavage) 2 Years negative Testes, Blood Mouse 	
Not cl Comp Florfe Speci Applic Expos Resul Targe Speci Applic Expos Resul Targe 2-Pyr Speci Applic	assified based on avail conents: enicol: es cation Route sure time t t Organs es cation Route sure time t t Organs rolidone: es cation Route	 Rat oral (gavage) 2 Years negative Liver, Testes Mouse oral (gavage) 2 Years negative Testes, Blood Mouse Ingestion 	
Not cl Comp Florfe Speci Applic Expos Resul Targe Speci Applic Expos Resul Targe 2-Pyr Speci Applic Expos Resul Targe	assified based on avail conents: enicol: es cation Route sure time t t Organs es cation Route sure time t t Organs rolidone: es cation Route sure time t	 Rat oral (gavage) 2 Years negative Liver, Testes Mouse oral (gavage) 2 Years negative Testes, Blood Mouse Mouse Ingestion 18 month(s) 	
Not cl Comp Florfe Speci Applic Expos Resul Targe Speci Applic Expos Resul Targe 2-Pyr Speci Applic	assified based on avail ponents: enicol: es cation Route sure time t t Organs es cation Route sure time t t Organs rolidone: es cation Route sure time t t Organs	 Rat oral (gavage) 2 Years negative Liver, Testes Mouse oral (gavage) 2 Years negative Testes, Blood Mouse Ingestion 18 month(s) negative 	from similar materials
Not cl Comp Florfe Speci Applic Expos Resul Targe Speci Applic Expos Resul Targe 2-Pyr Speci Applic Expos Resul Targe Carge	assified based on avail conents: enicol: es cation Route sure time t t Organs es cation Route sure time t t Organs rolidone: es cation Route sure time t t rolidone: es cation Route sure time t	 Rat oral (gavage) 2 Years negative Liver, Testes Mouse oral (gavage) 2 Years negative Testes, Blood Mouse Ingestion 18 month(s) negative Based on data 	
Not cl Comp Florfe Speci Applic Expos Resul Targe Speci Applic Expos Resul Targe 2-Pyr Speci Applic Expos Resul Targe 1-deo	assified based on avail ponents: enicol: es cation Route sure time t t Organs es cation Route sure time t t Organs rolidone: es cation Route sure time t t Organs rolidone: es cation Route sure time t es cation Route sure time t	 Rat oral (gavage) 2 Years negative Liver, Testes Mouse oral (gavage) 2 Years negative Testes, Blood Mouse Ingestion 18 month(s) negative Based on data 	from similar materials /I-3-(perfluoromethyl)anilino]nicotinate:
Not cl Comp Florfe Speci Applic Expos Resul Targe Speci Applic Expos Resul Targe 2-Pyr Speci Applic Expos Resul Targe 1-deo Speci	assified based on avail ponents: enicol: es cation Route sure time t t Organs es cation Route sure time t t Organs rolidone: es cation Route sure time t t Organs rolidone: es cation Route sure time t es cation Route sure time t	 Rat oral (gavage) 2 Years negative Liver, Testes Mouse oral (gavage) 2 Years negative Testes, Blood Mouse Ingestion 18 month(s) negative Based on data 	

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



Version 3.4	Revision Date: 28.09.2024	SDS Number: 9371411-00009	Date of last issue: 06.04.2024 Date of first issue: 27.08.2021				
Result Targe	LOAEL Result Target Organs Remarks		 2 mg/kg body weight negative Gastrointestinal tract Significant toxicity observed in testing 				
Expos NOAE Result Targe Rema	ation Route sure time :L t t Organs	 Mouse oral (feed) 97 w 0.6 mg/kg bod negative Gastrointestin Significant tox 					
•	amage fertility. May da	mage the unborn ch	ild.				
	oonents:						
Florfe Effects	nicol: s on fertility	Species: Rat Application Ro Fertility: LOAE	o-generation reproduction toxicity study oute: Oral L: 12 mg/kg body weight used pup survival, reduced lactation				
Effects ment	s on foetal develop-	Species: Rat General Toxic Embryo-foetal Result: No tera	abryo-foetal development ity Maternal: NOAEL: 4 mg/kg body weight toxicity: LOAEL: 40 mg/kg body weight atogenic effects, Fetotoxicity effects were seen only at maternally toxic dos-				
		Species: Mous Application Ro General Toxic	oute: oral (gavage) ity Maternal: NOAEL: 120 mg/kg body weight toxicity: LOAEL: 40 mg/kg body weight				
Repro sessm	ductive toxicity - As- nent	fertility, based	e of adverse effects on sexual function and on animal experiments., Some evidence of s on development, based on animal experi-				
2-Pyrı	rolidone:						
Effects	s on fertility	Species: Rat Application Ro Result: positiv					

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758

Florfenicol / Flunixin Formulation

Ver 3.4	sion	Revision Date: 28.09.2024		9S Number: 71411-00009	Date of last issue: 06.04.2024 Date of first issue: 27.08.2021
	Effects on foetal development : ment : Reproductive toxicity - Assessment :		Test Type: Embryo-foetal development Species: Rat Application Route: Ingestion Result: positive		
			:	ity, based on anin	adverse effects on sexual function and fertil- nal experiments., Clear evidence of adverse oment, based on animal experiments.
	Malic A	Acid:			
	Effects	on fertility	:	: Test Type: Two-generation reproduction toxicity study Species: Rat Application Route: Ingestion Result: negative	
	Effects ment	on foetal develop-	:	Test Type: Embry Species: Rat Application Route Result: negative	ro-foetal development : Ingestion
	1-deox	y-1-(methylamino)-D	-glu	citol 2-[2-methyl-3	B-(perfluoromethyl)anilino]nicotinate:
	Effects	on fertility	:	Species: Rat Application Route General Toxicity - Symptoms: No for	Parent: LOAEL: 1 - 1.5 mg/kg body weight etal abnormalities on fertility and early embryonic develop-
	Effects on foetal develop- : ment		:	Test Type: Development Species: Rat Application Route: Oral General Toxicity Maternal: LOAEL: 2 mg/kg body weight Embryo-foetal toxicity: NOAEL: 2 mg/kg body weight Result: Embryotoxic effects and adverse effects on the off spring were detected only at high maternally toxic doses	
				Species: Rabbit Application Route General Toxicity I Embryo-foetal tox Result: Embryoto	ro-foetal development : Oral Maternal: LOAEL: 3 mg/kg body weight icity: NOAEL: 3 mg/kg body weight xic effects and adverse effects on the off- ited only at high maternally toxic doses

STOT - single exposure

Not classified based on available information.

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



Version 3.4	Revision Date: 28.09.2024	SDS Number: 9371411-00009	Date of last issue: 06.04.2024 Date of first issue: 27.08.2021
Com	<u>oonents:</u>		
	oxy-1-(methylamino) ∙ ssment		yl-3-(perfluoromethyl)anilino]nicotinate: spiratory irritation.
	- repeated exposures damage to organs		repeated exposure.
<u>Comp</u>	oonents:		
Florfe	enicol:		
-	et Organs ssment		estis, Spinal cord, Blood, gallbladder ge to organs through prolonged or repeated
1-dec	oxy-1-(methylamino)	D-glucitol 2-[2-meth	yl-3-(perfluoromethyl)anilino]nicotinate:
	et Organs ssment		al tract, Kidney, Blood ge to organs through prolonged or repeated
Repe	ated dose toxicity		
Com	oonents:		
Florfe	enicol:		
		: Dog : 3 mg/kg : 13 Weeks : Liver, Testis, I	Brain, Spinal cord
		: Mouse : 200 mg/kg : 13 Weeks : Liver, Testis	
		: Rat : 30 mg/kg : 13 Weeks : Liver, Testis	
	EL	: Dog : 3 mg/kg : 12 mg/kg : 52 Weeks : Liver, gallblad	der
	EL	: Rat : 1 mg/kg : 3 mg/kg : 52 Weeks : Testis	

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



Florfenicol / Flunixin Formulation

Versio 3.4	on	Revision Date: 28.09.2024		0S Number: 71411-00009	Date of last issue: 06.04.2024 Date of first issue: 27.08.2021
2	2-Pyrro	blidone:			
	Species		•	Rat	
	NOAEL		÷	207 mg/kg	
	-	tion Route	÷	Ingestion	
		ire time	:	3 Months	
	Method		:	OECD Test Guide	eline 408
N	Malic A	Acid:			
S	Species	3	:	Rat	
	NOAEL		÷	> 250 mg/kg	
A	Applica	tion Route	:	Ingestion	
		ire time	:	104 Weeks	
1	1-deox	y-1-(methylamino)-D	-glu	citol 2-[2-methyl-	3-(perfluoromethyl)anilino]nicotinate:
	Species			Rat	
	NOAEL		÷	2 mg/kg	
	LOAEL		÷	< 4 mg/kg	
A	Applica	tion Route	:	Oral	
		ire time	:	6 w	
٦	Target	Organs	:	Gastrointestinal to	ract
	Species		:	Rat	
	NOAEL		:	1 mg/kg	
		tion Route	:	Oral	
		re time	:	1 y	
I	larget	Organs	:	Gastrointestinal t	ract, Kidney
5	Species	3	:	Monkey	
١	NOAEL		:	15 mg/kg	
		tion Route	:	Oral	
		ire time	:	90 d	
T	Target	Organs	:	Gastrointestinal t	ract, Blood
	Species		:	Rabbit	
	LOAEL		:	80 mg/kg	
		tion Route	:	Dermal	
		ire time	:	21 d	
S	Sympto	oms	:	Severe irritation	
	Species		:	Dog	
	LOAEL		:	11 mg/kg	
		tion Route	:	Oral	
		ire time	:	9 d	
		Organs	:	Gastrointestinal t	ract
S	Sympto	oms	:	Vomiting	
	Aoniro	tion toxicity			

Aspiration toxicity

Not classified based on available information.

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



Florfenicol / Flunixin Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 06.04.2024
3.4	28.09.2024	9371411-00009	Date of first issue: 27.08.2021

Experience with human exposure

Components:

1-deoxy-1-(methylamino)-D-glucitol 2-[2-methyl-3-(perfluoromethyl)anilino]nicotinate:				
Inhalation	:	Symptoms: respiratory tract irritation		

: Symptoms: Skin irritation
: Symptoms: Severe irritation
: Symptoms: Gastrointestinal disturbance, bleeding, hyperten- sion, Kidney disorders

SECTION 12: Ecological information

12.1 Toxicity

Com	ponents:

Florfenicol:	
---------------------	--

Toxicity 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
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
		NOEC (Skeletonema costatum (marine diatom)): 0.00423 mg/l Exposure time: 72 h Method: ISO 10253
		EC50 (Lemna gibba (gibbous duckweed)): 0.76 mg/l Exposure time: 7 d Method: OECD Test Guideline 221
		NOEC (Lemna gibba (gibbous duckweed)): 0.39 mg/l

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



Versi 3.4	ion	Revision Date: 28.09.2024		9S Number: 71411-00009	Date of last issue: 06.04.2024 Date of first issue: 27.08.2021
				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	
	M-Facto icity)	or (Acute aquatic tox-	:	10	
	Toxicity icity)	to fish (Chronic tox-	:	NOEC: 5.5 mg/l Exposure time: 32 Species: Pimepha Method: OECD Te	ales promelas (fathead minnow)
ä		to daphnia and other invertebrates (Chron- ty)	:	NOEC: 1.5 mg/l Exposure time: 21 Species: Daphnia Method: OECD Te	magna (Water flea)
	M-Facto toxicity)	or (Chronic aquatic	:	10	
2	2-Pyrro	olidone:			
-	Toxicity	r to fish	:	LC50 (Danio rerio Exposure time: 96 Method: OECD Te	
		to daphnia and other invertebrates	:	EC50 (Daphnia m Exposure time: 48	agna (Water flea)): > 500 mg/l 3 h
	Toxicity plants	to algae/aquatic	:	ErC50 (Desmodes Exposure time: 72	smus subspicatus (green algae)): > 500 mg/l 2 h
				EC10 (Desmodes Exposure time: 72	mus subspicatus (green algae)): 22.2 mg/l 2 h
-	Toxicity	to microorganisms	:	EC50 : > 1,000 m Exposure time: 30 Method: OECD Te) min

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



ersion 4	Revision Date: 28.09.2024	-	0S Number: 71411-00009	Date of last issue: 06.04.2024 Date of first issue: 27.08.2021	
Malic	Acid:				
Toxicity to fish		:	LC50 (Danio rerio (zebra fish)): > 100 mg/l Exposure time: 96 h Method: OECD Test Guideline 203 Remarks: Based on data from similar materials		
	ty to daphnia and other c invertebrates	:	EC50 (Daphnia Exposure time: 4	magna (Water flea)): 240 mg/l 48 h	
Toxicity to algae/aquatic plants		:	mg/l Exposure time: Test substance: Method: OECD	kirchneriella subcapitata (green algae)): > 10 72 h Neutralised product Test Guideline 201 d on data from similar materials	
			mg/l Exposure time: Test substance: Method: OECD	kirchneriella subcapitata (green algae)): 100 72 h Neutralised product Test Guideline 201 d on data from similar materials	
Toxici	Toxicity to microorganisms				
1-deo	xv-1-(methvlamino)-D-	alu	citol 2-[2-methvl	-3-(perfluoromethyl)anilino]nicotinate:	
	ty to fish	:		macrochirus (Bluegill sunfish)): 28 mg/l 96 h	
			LC50 (Oncorhyr Exposure time: 9 Method: FDA 4.		
	ty to daphnia and other c invertebrates	:	EC50 (Daphnia Exposure time: 4 Method: FDA 4.		
Toxici plants	ty to algae/aquatic	:	NOEC (Microcys Exposure time: Method: FDA 4.		
			NOEC (Selenas Exposure time:	trum capricornutum (green algae)): 96 mg/l 12 d	

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



Version 3.4	Revision Date: 28.09.2024	SDS Num 9371411-0		Date of last issue: 06.04.2024 Date of first issue: 27.08.2021
12.2 Pers	sistence and degradab	lity		
Com	ponents:			
-	r rolidone: egradability			odegradable. on data from similar materials
Mali	c Acid:			
Biod	egradability	Metho	d: OECD T	odegradable. est Guideline 301C on data from similar materials
	oxy-1-(methylamino)-D ility in water	-	[2-methyl-3 lysis: 0 %(2	B-(perfluoromethyl)anilino]nicotinate: 8 d)
12.3 Bioa	accumulative potential			
Com	ponents:			
Parti	fenicol: tion coefficient: n- nol/water	: log Po pH: 7	ow: 0.373	
2-Pv	rrolidone:			
Parti	tion coefficient: n- nol/water		ow: -0.71 d: OECD To	est Guideline 107
Parti	c Acid: tion coefficient: n- nol/water	: log Po	w: -1.26	
1-de	oxy-1-(methylamino)-D	-glucitol 2-	[2-methyl-3	-(perfluoromethyl)anilino]nicotinate:
	tion coefficient: n- nol/water	: log Po	ow: 1.34	
12.4 Mob	ility in soil			
Com	ponents:			
Distr	fenicol: ibution among environ- tal compartments	: Koc: 5 Metho	62 d: FDA 3.08	3
1-de	oxy-1-(methylamino)-E	-glucitol 2-	[2-methyl-3	-(perfluoromethyl)anilino]nicotinate:
Distr	ibution among environ- tal compartments	-	oc: 1.92	
12.5 Res	ults of PBT and vPvB a	ssessment	:	
Proc	luct:			



Florfenicol / Flunixin Formulation

Version 3.4	Revision Date: 28.09.2024	SDS Number: 9371411-00009		Date of last issue: 06.04.2024 Date of first issue: 27.08.2021
Asses	sment	:	to be either persis	nixture contains no components considered stent, bioaccumulative and toxic (PBT), or nd very bioaccumulative (vPvB) at levels of
12.6 Other	adverse effects			
<u>Produ</u> Endoc tial	I <u>ct:</u> rine disrupting poten-	:	ered to have end	nixture does not contain components consid- ocrine disrupting properties for environment REACH Article 57(f).

SECTION 13: Disposal considerations

Product		Dispose of in accordance with local regulations. According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities. Do not dispose of waste into sewer.
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

14.1 UN number

ADN	:	UN 3082
ADR	:	UN 3082
RID	:	UN 3082
IMDG	:	UN 3082
ΙΑΤΑ	:	UN 3082

14.2 UN proper shipping name

ADN	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Florfenicol)
ADR	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Florfenicol)
RID	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Florfenicol)
IMDG	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



Florfenicol / Flunixin Formulation

Version 3.4	Revision Date: 28.09.2024	SDS Number: 9371411-00009	Date of last issue: 06.04.2024 Date of first issue: 27.08.2021
ΙΑΤΑ		(Florfenicol) : Environmenta (Florfenicol)	lly hazardous substance, liquid, n.o.s.
14.3 Tran	sport hazard class(es)		
		Class	Subsidiary risks
ADN		: 9	
ADR		: 9	
RID		: 9	
IMDO	3	: 9	
ΙΑΤΑ		: 9	
14.4 Pack	king group		
Class	ing group sification Code ırd Identification Number	: III : M6 : 90 : 9	
Class Haza Labe	ing group sification Code ırd Identification Number	: III : M6 : 90 : 9 : (-)	
Class	ing group sification Code ırd Identification Number Is	: III : M6	
Labe	ing group	: III : 9 : F-A, S-F	
Pack	(Cargo) ing instruction (cargo	: 964	
	ing instruction (LQ) ing group	: Y964 : III : Miscellaneous	3
Pack ger a	(Passenger) ing instruction (passen- ircraft) ing instruction (LQ)	: 964 : Y964	
	ing group	: III : Miscellaneous	3

14.5 Environmental hazards

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



Florfenicol / Flunixin Formulation

Version Revisi 3.4 28.09.	on Date: 2024		DS Number: 71411-00009	Date of last issue: Date of first issue:	
ADN					
Environmental	ly hazardous	:	yes		
ADR Environmental	ly hazardous	:	yes		
RID Environmental	ly hazardous	:	yes		
IMDG Marine polluta	nt	:	yes		
IATA (Passen Environmental		:	yes		
IATA (Cargo) Environmental	ly hazardous	:	yes		

14.6 Special precautions for user

Remarks

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.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

: Not applicable for product as supplied.

SECTION 15: Regulatory information

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

Relevant EU provisions transposed through retained EU law

UK REACH List of restrictions (Annex 17)	:	Conditions of restriction for the fol- lowing entries should be considered: Number on list 3
		Substance(s) or mixture(s) are listed here according to their appearance in the regulation, irrespective of their use/purpose or the conditions of the restriction. Please refer to the condi- tions in corresponding Regulation to determine whether an entry is appli- cable to the placing on the market or not.
UK REACH Candidate list of substances of very high concern (SVHC) for Authorisation	:	Not applicable
The Persistent Organic Pollutants Regulations (retained Regulation (EU) 2019/1021 as amended for Great Britain)	:	Not applicable
Regulation (EC) on substances that deplete the ozone layer	:	Not applicable
UK REACH List of substances subject to authorisation (Annex XIV)	:	Not applicable



According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758

Florfenicol / Flunixin Formulation

Version 3.4	Revision Date: 28.09.2024	SDS Number: 9371411-00009	Date of last issue: 06.04.20 Date of first issue: 27.08.20	
Inform	ned Consent (PIC) Reg	zardous chemicals - Pr gulation azards Regulations 20 ENVIRONMEN HAZARDS	15 (COMAH) Quantity 1	Quantity 2 200 t

Other regulations:

Take note of The Management of Health and Safety at Work Regulations 1999 (requirements relating to new and expectant mothers at work contained in Regulation 16 to 18) and of the Pregnant Workers Directive 92/85/EEC.

Take note of The Management of Health and Safety at Work Regulations 1999 (requirements relating to protection of young people at work contained in Regulation 19) and of Directive 94/33/EC on the protection of young people at work.

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

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

15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information				
Other information	:	Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.		
Full text of H-Statements				
H301	:	Toxic if swallowed.		
H318	:	Causes serious eye damage.		
H319	:	Causes serious eye irritation.		
H330	:	Fatal if inhaled.		
H335	:	May cause respiratory irritation.		
H360FD	:	May damage fertility. May damage the unborn child.		
H361fd	:	Suspected of damaging fertility. Suspected of damaging the unborn child.		
H372	:	Causes damage to organs through prolonged or repeated exposure.		
H400	:	Very toxic to aquatic life.		
H410		Very toxic to aquatic life with long lasting effects.		
H411	:	Toxic to aquatic life with long lasting effects.		
Full text of other abbreviation	ns			
Acute Tox. Aquatic Acute Aquatic Chronic Eye Dam.	:	Acute toxicity Short-term (acute) aquatic hazard Long-term (chronic) aquatic hazard Serious eye damage		

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



Florfenicol / Flunixin Formulation

Version	Revision Date: 28.09.2024	SDS Number:	Date of last issue: 06.04.2024
3.4		9371411-00009	Date of first issue: 27.08.2021
Eye l Repr.		: Eye irritation : Reproductive to	oxicity

Repr.	: Reproductive toxicity
STOT RE STOT SE	 Specific target organ toxicity - repeated exposure Specific target organ toxicity - single exposure

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA -European Chemicals Agency; EC-Number - European Community number; 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; 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; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; 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; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; 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

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 Agency, http://echa.europa.eu/

Classification procedure:

Calculation method Calculation method Calculation method Calculation method Calculation method

Classification of the mixture:

Acute Tox. 4	H332
Eye Irrit. 2	H319
Repr. 1B	H360FD
STOT RE 1	H372
Aquatic Acute 1	H400
Aquatic Chronic 1	H410

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



Florfenicol / Flunixin Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 06.04.2024
3.4	28.09.2024	9371411-00009	Date of first issue: 27.08.2021

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.

GB / EN