

Florfenicol Formulation

Version 6.0	Revision Date: 28.09.2024		DS Number: 81960-00012	Date of last issue: 06.04.2024 Date of first issue: 15.12.2020
SECTION	1: Identification of	the	substance/mix	ture and of the company/undertaking
1.1 Produ	ct identifier			
Trade	name	:	Florfenicol Form	nulation
1.2 Releva	ant identified uses of	the s	substance or mix	cture and uses advised against
	f the Sub- e/Mixture	:	Veterinary prod	uct
Recor on use	mmended restrictions e	:	Not applicable	
1.3 Details	s of the supplier of th	e saf	ety data sheet	
Comp	any	:	MSD 20 Spartan Roa 1619 Spartan, 3	
Telep	hone	:	+27119239300	
	l address of person nsible for the SDS	:	EHSDATASTE	VARD@msd.com
-	ency telephone numl 8-423-6000	ber		

Classification (REGULATION (EC) No 1272/2008)

Skin irritation, Category 2	H315: Causes skin irritation.
Eye irritation, Category 2	H319: Causes serious eye irritation.
Reproductive toxicity, Category 1B	H360Df: May damage the unborn child. Suspected of damaging fertility.
Specific target organ toxicity - single ex- posure, Category 3	H335: May cause respiratory irritation.
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.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)



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Haza	rd pictograms		!
Signa	al word	: Danger	• •
Haza	rd statements	H335 May cau H360Df May dar fertility. H372 Causes peated exposure	serious eye irritation. use respiratory irritation. mage the unborn child. Suspected of damaging damage to organs through prolonged or re-
Preca	autionary statements	P264 Wash sl P273 Avoid re	special instructions before use. kin thoroughly after handling. elease to the environment. otective gloves/ protective clothing/ eye protec- tion.
		Response: P308 + P313 attention. P391 Collect s	IF exposed or concerned: Get medical advice/
	rdous components whi thyl-2-pyrrolidone enicol	ch must be listed on t	he label:

Additional Labelling

Restricted to professional users.

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.	Classification	Concentration
	EC-No.		(% w/w)
	Index-No.		
	Registration number		
N-Methyl-2-pyrrolidone	872-50-4	Skin Irrit. 2; H315	>= 30 - < 50
	212-828-1	Eye Irrit. 2; H319	
	606-021-00-7	Repr. 1B; H360D	
		STOT SE 3; H335	



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Florfe	nicol	73231-34-2	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	>= 25 - < 30

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).
	If inhaled	:	If inhaled, remove to fresh air. Get medical attention.
	In case of skin contact	:	In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.
	In case of eye contact	:	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.
4.2	Most important symptoms an	d e	ffects, both acute and delayed
	Risks	:	Causes skin irritation.

Causes serious eye irritation. May cause respiratory irritation.

May damage the unborn child. Suspected of damaging fertili-



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			ty. Causes damage exposure.	to organs through prolonged or repeated	
4.3 Indi	cation of any immediate	med	lical attention an	d special treatment needed	
Tre	atment	:	Treat symptoma	tically and supportively.	
SECTIO	ON 5: Firefighting mea	sur	es		
5.1 Exti	nguishing media				
Sui	table extinguishing media	:	Water spray Alcohol-resistant Carbon dioxide (Dry chemical		
Unsuitable extinguishing media		:	None known.		
5.2 Spe	cial hazards arising from	the	e substance or m	ixture	
	ecific hazards during fire- iting	:	Exposure to com	bustion products may be a hazard to health.	
Ha: uct	zardous combustion prod- s	:	Carbon oxides Nitrogen oxides	(NOx)	
5.3 Adv	ice for firefighters				
	ecial protective equipment firefighters	:		re, wear self-contained breathing apparatus. Ditective equipment.	
Spo	ecific extinguishing meth-	:	cumstances and Use water spray	g measures that are appropriate to local cir- the surrounding environment. to cool unopened containers. aged containers from fire area if it is safe to do	

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. Local authorities should be advised if significant spillages
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		cannot be cont	ained.
6.3 Metho	ods and material for o	ontainment and clea	ning up
Meth	ods for cleaning up	For large spills, ment to keep m be pumped, sto Clean up rema bent. Local or nation posal of this ma employed in the mine which reg Sections 13 an	ert absorbent material. provide dyking or other appropriate contain- haterial from spreading. If dyked material can bre recovered material in appropriate container. ining materials from spill with suitable absor- al regulations may apply to releases and dis- aterial, as well as those materials and items e cleanup of releases. You will need to deter- iulations are applicable. d 15 of this SDS provide information regarding 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

 Treoducions for sure numaring	9	
Technical measures	:	See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.
Local/Total ventilation	:	If sufficient ventilation is unavailable, use with local exhaust ventilation.
Advice on safe handling	:	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 safety practice, based on the results of the workplace exposure as- sessment Keep container tightly closed. Already sensitised individuals, and those susceptible to asthma, allergies, chronic or recurrent respiratory disease, should consult their physician regarding working with respira- tory irritants or sensitisers. Do not eat, drink or smoke when using this product. Take care to prevent spills, waste and minimize release to the environment.
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 contami- 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.



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	tions for safe storage		-
	irements for storage and containers	tightly closed.	rly labelled containers. Store locked up. Keep Keep in a cool, well-ventilated place. Store in ith the particular national regulations.
Advic	e on common storage	Strong oxidizir	substances and mixtures
7.3 Specif	fic end use(s)		

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
N-Methyl-2- pyrrolidone	872-50-4	TWA	10 ppm 40 mg/m3	2009/161/EU
		STEL	20 ppm 80 mg/m3	2009/161/EU
		TWA	10 ppm 40 mg/m3	2004/37/EC
		STEL	20 ppm 80 mg/m3	2004/37/EC
Florfenicol	73231-34-2	TWA	100 µg/m3 (OEB 2)	Internal

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006

	· ·		• •	
Substance name	End Use	Exposure routes	Potential health ef- fects	Value
N-Methyl-2- pyrrolidone	Workers	Inhalation	Long-term systemic effects	14,4 mg/m3
	Workers	Inhalation	Long-term local ef- fects	40 mg/m3
	Workers	Skin contact	Long-term systemic effects	4,8 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	3,6 mg/m3
	Consumers	Inhalation	Long-term local ef- fects	4,5 mg/m3
	Consumers	Skin contact	Long-term systemic effects	2,4 mg/kg bw/day
	Consumers	Ingestion	Long-term systemic effects	0,85 mg/kg bw/day
Propylene glycol	Workers	Inhalation	Long-term local ef- fects	10 mg/m3



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I		Workers		Inhalation		ong-term systemic	2 168 mg/m3	
		Consume	rs	Inhalation		ong-term local ef- ects	10 mg/m3	
		Consume	rs	Inhalation		ong-term systemic	50 mg/m3	
Predi	icted No Effect Co	oncentratio		-	-	egulation (EC) No	I	
	tance name		Envi	ronmental Con	npartme	ent	Value	
N-Me	thyl-2-pyrrolidone			h water			0,25 mg/l	
			Freshwater - intermittent				5 mg/l	
	Marine water				0,025 mg/l			
_			Sewage treatment plant			10 mg/l		
			Fres	Fresh water sediment			1,09 mg/kg dry	
_						weight (d.w.)		
			Marii	ne sediment			1,09 mg/kg dry	
-			0.1				weight (d.w.)	
			Soil				0,07 mg/kg dry	
Dram	dana abyaal		F ree	weight (d.w.)				
Ргору	lene glycol		Fresh water				260 mg/l 183 mg/l	
		Freshwater - intermittent Marine water				26 mg/l		
				Sewage treatment plant			20000 mg/l	
-				h water sedime	•		572 mg/kg dry	
			1103		ent		weight (d.w.)	
			Mari	ne sediment			57,2 mg/kg dry	
			man				weight (d.w.)	
			Soil				50 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. Laboratory operations do not require special containment.

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



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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

9.1	information on basic physical	an	iu chemical properties
	Appearance Colour Odour Odour Threshold	:	liquid yellow No data available 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	:	No data available
	Density	:	1,050 - 1,250 g/cm³
	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
	Molecular weight	:	No data available



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Partic	cle size	: N	lot applicable	
SECTION	10: Stability and re	eactivit	y	
10.1 Reac Not c	tivity lassified as a reactivity	hazard.		
	nical stability e under normal conditio	ns.		
10.3 Poss	bility of hazardous re	actions	5	
	rdous reactions			trong oxidizing agents.
10.4 Conc	litions to avoid			
Cond	itions to avoid	: N	lone known.	
10.5 Incor	mpatible materials			
	rials to avoid	: C	xidizing agents	;
No ha	ardous decomposition azardous decompositior	n produc	ts are known.	
No ha SECTION 11.1 Infor	azardous decomposition 1 11: Toxicological i mation on toxicologic nation on likely routes o	n produc nforma al effec of : In St In	tts are known. Ition ts halation kin contact gestion	
No ha SECTION 11.1 Inforn Inforn expos	Azardous decomposition 1 11: Toxicological i mation on toxicologic nation on likely routes of sure	n produc nforma al effec of : In St In	tts are known. Ition ts halation kin contact	
No ha SECTION 11.1 Inform Inform expose Acute	azardous decomposition N 11: Toxicological in mation on toxicologic nation on likely routes of sure e toxicity	al effec of : In SI In Ey	ts are known. tion ts halation kin contact gestion /e contact	
No ha SECTION 11.1 Inform Inform expose Acute Not c	Azardous decomposition 1 11: Toxicological i mation on toxicologic nation on likely routes of sure	al effec of : In SI In Ey	ts are known. tion ts halation kin contact gestion /e contact	
No ha SECTION 11.1 Inform Inform expose Acute Not ci <u>Com</u>	azardous decomposition N 11: Toxicological i mation on toxicologic nation on likely routes of sure e toxicity lassified based on avail	al effec of : In SI In Ey	ts are known. tion ts halation kin contact gestion /e contact	
No ha SECTION 11.1 Inform Inform expose Acute Not c <u>Comp</u> N-Me	Azardous decomposition N 11: Toxicological i mation on toxicologic nation on likely routes of sure e toxicity lassified based on avail ponents:	n produc nforma al effec of : In Si In Ey able info	ts are known. tion ts halation kin contact gestion /e contact) mg/kg
No ha	azardous decomposition N 11: Toxicological i mation on toxicologic nation on likely routes o sure e toxicity lassified based on avail ponents: thyl-2-pyrrolidone:	al effec of : In Sk able info : LC : LC E2 Te	tts are known. Ition ts halation kin contact gestion /e contact ormation. 050 (Rat): 4.150 050 (Rat): > 5,1 kposure time: 4 est atmosphere	mg/l h
No ha	Azardous decomposition A 11: Toxicological i mation on toxicologic nation on likely routes of sure e toxicity lassified based on avail ponents: ethyl-2-pyrrolidone: e oral toxicity	al effec of : In Si able info : LC : LC Ex Te M	tts are known. Ition ts halation kin contact gestion /e contact ormation. 050 (Rat): 4.150 050 (Rat): > 5,1 kposure time: 4 est atmosphere	mg/l h : dust/mist est Guideline 403
No ha	azardous decomposition I 11: Toxicological i mation on toxicologic nation on likely routes of sure e toxicity lassified based on avail ponents: hthyl-2-pyrrolidone: e oral toxicity e inhalation toxicity e dermal toxicity	al effec of : In Si able info : LC : LC Ex Te M	tts are known. ttion ts halation kin contact gestion /e contact ormation. 050 (Rat): 4.150 C50 (Rat): > 5,1 kposure time: 4 est atmosphere ethod: OECD T	mg/l h : dust/mist est Guideline 403
No ha	azardous decomposition I 11: Toxicological i mation on toxicologic nation on likely routes of sure e toxicity lassified based on avail ponents: ethyl-2-pyrrolidone: e oral toxicity e inhalation toxicity	al effec of : In Si in Ey able info : LC E Te Mi : LC	tts are known. ttion ts halation kin contact gestion /e contact ormation. 050 (Rat): 4.150 C50 (Rat): > 5,1 kposure time: 4 est atmosphere ethod: OECD T	mg/l h : dust/mist est Guideline 403 00 mg/kg
No ha	azardous decomposition I 11: Toxicological i mation on toxicologic nation on likely routes of sure e toxicity lassified based on avail ponents: ethyl-2-pyrrolidone: e oral toxicity e inhalation toxicity e dermal toxicity enicol:	al effec of : In Share information al effec of : In Share information able information : LC Ex Te M : LC : LC	tts are known. ts halation kin contact gestion /e contact formation. 050 (Rat): 4.150 C50 (Rat): > 5,1 kposure time: 4 est atmosphere ethod: OECD T 050 (Rat): > 5.0	mg/l h : dust/mist est Guideline 403 00 mg/kg



ersion .0	Revision Date: 28.09.2024		DS Number: 81960-00012	Date of last issue: 06.04.2024 Date of first issue: 15.12.2020
П				
			LD50 (Dog): > 1.2	280 mg/kg
Acute	inhalation toxicity	:	LC50 (Rat): > 0,2 Exposure time: 4	
Acute	e dermal toxicity	:	Remarks: No data	a available
	e toxicity (other routes of nistration)	:	LD50 (Rat): 1.913 Application Route	
			LD50 (Mouse): 10 Application Route	
-	corrosion/irritation es skin irritation.			
Com	ponents:			
N-Me	thyl-2-pyrrolidone:			
Resu	lt	:	Skin irritation	
Florfe	enicol:			
Speci Resu		:	Rabbit No skin irritation	
	us eye damage/eye irri es serious eye irritation.	tati	on	
	ponents:			
	thyl-2-pyrrolidone:			
Speci Resu	ies	:	Rabbit Irritation to eyes,	reversing within 21 days
Florfe	enicol:			
Speci Resu		:	Rabbit Mild eye irritation	
Resp	iratory or skin sensitis	atio	on	
-	sensitisation lassified based on availa	ble	information.	
	iratory sensitisation lassified based on availa	ble	information.	
<u>Com</u>	ponents:			
N-Me	thyl-2-pyrrolidone:			
Test Expos Speci	sure routes	:	Local lymph node Skin contact Mouse	assay (LLNA)



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Metho Resu Rema	lt	: OECD Test (: negative : Based on dat	Guideline 429 a from similar materials
Florfe Test Speci Resu	ies	: Maximisation : Guinea pig : negative	Test
Not c	n cell mutagenicity lassified based on ava ponents:	ailable information.	
N-Me	thyl-2-pyrrolidone:		
	toxicity in vitro		acterial reverse mutation assay (AMES) 2D Test Guideline 471 ive
			vitro mammalian cell gene mutation test CD Test Guideline 476 ive
			NA damage and repair, unscheduled DNA syn- nmalian cells (in vitro) ive
Geno	toxicity in vivo	cytogenetic a Species: Mou Application R	use oute: Ingestion CD Test Guideline 474
		cytogenetic to Species: Han Application R	oute: Ingestion
		Result: negat	CD Test Guideline 475 ive
II		_	
	enicol: toxicity in vitro	: Test Type: B Result: negat	acterial reverse mutation assay (AMES) ive
		thesis in man	NA damage and repair, unscheduled DNA syn- nmalian cells (in vitro) rat hepatocytes ive
			vitro mammalian cell gene mutation test mouse lymphoma cells ive



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				nosome aberration test in vitro nese hamster ovary cells
Geno	toxicity in vivo	:	Test Type: Micror Species: Mouse Cell type: Bone m Application Route Result: negative	arrow
	nogenicity lassified based on avail	able	information	
	ponents:			
N-Me	thyl-2-pyrrolidone:			
Speci Applio	es cation Route sure time	: :	Rat Ingestion 2 Years negative	
	cation Route sure time	: :	Rat inhalation (vapour 2 Years negative	r)
Florfe	enicol:			
Expos Resu	cation Route sure time	: :	Rat oral (gavage) 2 Years negative Liver, Testes	
Expos Resu	cation Route sure time		Mouse oral (gavage) 2 Years negative Testes, Blood	
Mayo	oductive toxicity damage the unborn chil ponents:	d. Sı	uspected of damag	ing fertility.
	thyl-2-pyrrolidone: ts on fertility	:	Test Type: Two-g Species: Rat Application Route Method: OECD T Result: negative	
Effect ment	ts on foetal develop-	:	Test Type: Embry Species: Rat	vo-foetal development
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		Application Ro Method: OECI Result: positiv	D Test Guideline 414
		Species: Rat	rtility/early embryonic development oute: inhalation (vapour) e
		Test Type: En Species: Rabb Application Ro Result: positiv	oute: Ingestion
Repro sessr	oductive toxicity - As- nent	: Clear evidence animal experir	e of adverse effects on development, based on nents.
Florfe	enicol:		
Effect	s on fertility	Species: Rat Application Ro Fertility: LOAE	o-generation reproduction toxicity study oute: Oral L: 12 mg/kg body weight ased pup survival, reduced lactation
Effect ment	s on foetal develop-	Species: Rat General Toxic Embryo-foetal Result: No tera	nbryo-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 do
		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 sessr	oductive 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-
May o	- single exposure cause respiratory irritation	۱.	
	<u>oonents:</u>		
N-IVIE	thyl-2-pyrrolidone:		

Assessment : May cause respiratory irritation.



STOT - repeated exposure Causes damage to organs through prolonged or repeated exposure. Components: Florfenicol: Target Organs :: Assessment :: Components: Repeated dose toxicity Components: N-Methyl-2-pyrrolidone: Species :: Repeated dose toxicity Components: N-AEL :: VAEL :: Vage in the system Species :: Ration : NOAEL :: UAAEL :: Species :: Ration (dust/mist/fume) Exposure time : 90 Days Method : CAEL :: UAAEL :: Young time : Species :: Ration (dust/mist/fume) Exposure time : Young time : Target Organs : LOAEL : 1.653 mg/kg	Causes damage to organs through prolonged or repeated exposure. Components: Florfenicol: Target Organs : Liver, Brain, Testis, Spinal cord, Blood, gallbladder Assessment : Causes damage to organs through prolonged or repeated exposure. Repeated dose toxicity Components: N-Methyl-2-pyrrolidone: Species : Rat, male NOAEL :: 169 mg/kg LOAEL :: 433 mg/kg Application Route :: Ingestion Exposure time :: 90 Days Method :: OCEOT Fest Guideline 408 Species : Rat NOAEL :: 1 mg/l Application Route :: Ingestion Exposure time :: 96 Days Method :: OCEOT Fest Guideline 413 Species : Rat NOAEL :: 1653 mg/kg LOAEL :: 1653 mg/kg LOAEL :: 1653 mg/kg LOAEL :: 20 Days Florfenicol: Species :: Rabbit NOAEL :: 20 Days Florfenicol: Species :: Mouse NOAEL :: 3 mg/kg Target Organs :: Liver, Testis, Brain, Spinal cord Species :: Rat NOAEL :: 20 mg/kg Exposure time :: 13 Weeks Target Organs :: Liver, Testis Species :: Rat NOAEL :: 20 mg/kg Exposure time :: 13 Weeks Target Organs :: Liver, Testis Species :: Rat NOAEL :: 20 mg/kg Exposure time :: 13 Weeks Target Organs :: Liver, Testis Species :: Rat NOAEL :: 20 mg/kg Exposure time :: 13 Weeks Target Organs :: Liver, Testis Species :: Rat NOAEL :: 20 mg/kg Exposure time :: 13 Weeks Target Organs :: Liver, Testis Species :: Rat NOAEL :: 3 mg/kg NOAE	Version 6.0	Revision Date: 28.09.2024	SDS Number: 7681960-00012	Date of last issue: 06.04.2024 Date of first issue: 15.12.2020
Components: Florfenicol: Target Organs : Liver, Brain, Testis, Spinal cord, Blood, gallbladder Assessment : Causes damage to organs through prolonged or repeated exposure. Repeated dose toxicity Components: N-Methyl-2-pyrrolidone: Species : NAEL : 169 mg/kg LOAEL : 433 mg/kg Application Route : Ingestion Exposure time : 90 Days Method : OCCD Test Guideline 408 Species : Rat NOAEL : 0.5 mg/l LOAEL : 0.6 mg/kg LOAEL : 0.6 mg/kg LOAEL : 0.65 mg/kg LOAEL : 2.05 mg/kg LOAEL : 2.05 mg/kg LOAEL : 2.05 mg/kg LOAEL : 3 mg/kg	Components: Florfenicol: Target Organs :: Liver, Brain, Testis, Spinal cord, Blood, gallbladder Assessment :: Causes damage to organs through prolonged or repeated exposure. Repeated dose toxicity Components: N-Methyl-2-pyrrolidone: Species :: NAEL :: 169 mg/kg LOAEL :: 169 mg/kg LOAEL :: 90 Days Method :: OCCD Test Guideline 408 Species :: Rat NOAEL :: 0,5 mg/l LOAEL :: 0,5 mg/l LOAEL :: 0,5 mg/l LOAEL :: 0,5 mg/l LOAEL :: 0,6 mg/kg LOAEL :: 0,6 mg/kg LOAEL :: 20 Days Florfenicol: : Species :: Species :: Dog	STO	Г - repeated exposur	e	
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Exposure time : 13 Weeks Target Organs : Liver, Testis Species : Rat NOAEL : 30 mg/kg Exposure time : 13 Weeks Target Organs : Liver, Testis Species : Liver, Testis Species : Dog NOAEL : 3 mg/kg	Exposure time : 13 Weeks Target Organs : Liver, Testis Species : Rat NOAEL : 30 mg/kg Exposure time : 13 Weeks Target Organs : Liver, Testis Species : Dog NOAEL : 3 mg/kg	Spec	ies	: Mouse	
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Target Organs : Liver, Testis Species : Dog NOAEL : 3 mg/kg	Target Organs : Liver, Testis Species : Dog NOAEL : 3 mg/kg				
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0 0	0 0				



Vers 6.0	ion	Revision Date: 28.09.2024		9S Number: 81960-00012	Date of last issue: 06.04.2024 Date of first issue: 15.12.2020
		ire time Organs	:	52 Weeks Liver, gallbladder	
		-	:	Rat 1 mg/kg 3 mg/kg 52 Weeks Testis	
	Not cla	tion toxicity ssified based on availa			
	-	ence with human exp onents:	ost	ire	
		nyl-2-pyrrolidone:			
	Skin co		:	Symptoms: Skin i	rritation
SEC	TION	12: Ecological infor	ma	tion	
12.1	Toxici	łv			
		onents:			
		yl-2-pyrrolidone:			
	Toxicity	/ to fish	:	LC50 (Oncorhync Exposure time: 96	hus mykiss (rainbow trout)): > 500 mg/l S h
		/ to daphnia and other invertebrates	:	EC50 (Daphnia m Exposure time: 24 Method: DIN 384	
	Toxicity plants	/ to algae/aquatic	:	ErC50 (Desmode Exposure time: 72	smus subspicatus (green algae)): 600,5 mg/l 2 h
				EC10 (Desmodes Exposure time: 72	mus subspicatus (green algae)): 92,6 mg/l ? h
	Toxicity	/ to microorganisms	:	EC50 : > 600 mg/ Exposure time: 30 Method: ISO 8192) min
		/ to daphnia and other invertebrates (Chron- ity)	:	NOEC: 12,5 mg/l Exposure time: 2 ⁴ Species: Daphnia Method: OECD T	magna (Water flea)

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



Version 6.0	Revision Date: 28.09.2024		DS Number: 81960-00012	Date of last issue: 06.04.2024 Date of first issue: 15.12.2020
			Exposure time: 96 Method: FDA 4.11	
	y to daphnia and other c invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: OECD Te	
Toxicit plants	y to algae/aquatic	:	EC50 (Pseudokiro mg/l Exposure time: 14 Method: FDA 4.01	
			NOEC (Pseudokir mg/l Exposure time: 14 Method: FDA 4.01	
			IC50 (Skeletonem Exposure time: 72 Method: ISO 1025	
			NOEC (Skeletone Exposure time: 72 Method: ISO 1025	
			EC50 (Lemna gib Exposure time: 7 Method: OECD Te	
			NOEC (Lemna gil 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-Fac icity)	tor (Acute aquatic tox-	:	10	
Toxicit icity)	y to fish (Chronic tox-	:	NOEC: 5,5 mg/l Exposure time: 32 Species: Pimepha	2 d Iles promelas (fathead minnow)



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II		Method: OECD T	est Guideline 210
Toxicity to daphnia and other aquatic invertebrates (Chron- ic toxicity)			1 d a magna (Water flea) est Guideline 211
M-Factor (Chronic aquatic toxicity)	:	10	
12.2 Persistence and degradabi	lity		
Components:			
N-Methyl-2-pyrrolidone:			
Biodegradability	:	Result: Readily b Biodegradation: Exposure time: 28 Method: OECD T	73 %
12.3 Bioaccumulative potential			
Components:			
N-Methyl-2-pyrrolidone:			
Partition coefficient: n- octanol/water	:	log Pow: -0,46 Method: OECD T	est Guideline 107
Florfenicol:			
Partition coefficient: n- octanol/water	:	log Pow: 0,373 pH: 7	
12.4 Mobility in soil			
Components:			
Florfenicol:			
Distribution among environ- mental compartments	:	Koc: 52 Method: FDA 3.0	8
12.5 Results of PBT and vPvB a	sse	ssment	
Product:			
Assessment	:	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			
Product:			
Endocrine disrupting poten- tial	:		ixture does not contain components consid- ocrine disrupting properties according to
		17 / 22	



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		(EU) 2	CH Article 57(f) or Commission Delegated regulation 2017/2100 or Commission Regulation (EU) 2018/605 of 0.1% or higher.		
SECTION	l 13: Disposal cons	derations			
13.1 Wast	e treatment methods				
Produ	ıct	Accord are no Waste discus	se of in accordance with local regulations. ding to the European Waste Catalogue, Waste Codes of product specific, but application specific. e codes should be assigned by the user, preferably in ssion with the waste disposal authorities. of dispose of waste into sewer.		
Conta	aminated packaging	dling s	y containers should be taken to an approved waste ha site for recycling or disposal. otherwise specified: Dispose of as unused product.		
SECTION	I 14: Transport info	mation	· · · ·		
	·				
14.1 UN n	umber				
ADN		: UN 30	082		
ADR		: UN 30	082		
RID		: UN 30	082		
IMDG :			UN 3082		
INDG	i	: UN 30	082		
	i	: UN 30 : UN 30			
ΙΑΤΑ	roper shipping name				
ΙΑΤΑ		: UN 30	082 RONMENTALLY HAZARDOUS SUBSTANCE, LIQUII S.		
IATA 14.2 UN p		: UN 30 : ENVIF N.O.S (Florfe	082 RONMENTALLY HAZARDOUS SUBSTANCE, LIQUII S. enicol) RONMENTALLY HAZARDOUS SUBSTANCE, LIQUII S.		
IATA 14.2 UN p ADN		: UN 30 : ENVIF N.O.S (Florfe : ENVIF N.O.S (Florfe	D82 RONMENTALLY HAZARDOUS SUBSTANCE, LIQUII S. enicol) RONMENTALLY HAZARDOUS SUBSTANCE, LIQUII S. enicol) RONMENTALLY HAZARDOUS SUBSTANCE, LIQUII		
IATA 14.2 UN p ADN ADR	roper shipping name	: UN 30 : ENVIR N.O.S (Florfe : ENVIR N.O.S (Florfe : ENVIR N.O.S (Florfe	D82 RONMENTALLY HAZARDOUS SUBSTANCE, LIQUII S. enicol) RONMENTALLY HAZARDOUS SUBSTANCE, LIQUII S. enicol) RONMENTALLY HAZARDOUS SUBSTANCE, LIQUII S. enicol)		
IATA 14.2 UN p ADN ADR RID	roper shipping name	 UN 30 ENVIF N.O.S (Florfe ENVIF N.O.S (Florfe ENVIF N.O.S (Florfe ENVIF N.O.S (Florfe 	D82 RONMENTALLY HAZARDOUS SUBSTANCE, LIQUI S. enicol) RONMENTALLY HAZARDOUS SUBSTANCE, LIQUI S. enicol) RONMENTALLY HAZARDOUS SUBSTANCE, LIQUI S. enicol) RONMENTALLY HAZARDOUS SUBSTANCE, LIQUI S. enicol)		
IATA 14.2 UN p ADN ADR RID IMDG IATA	roper shipping name	 UN 30 ENVIF N.O.S (Florfe) ENVIF N.O.S (Florfe) ENVIF N.O.S (Florfe) ENVIF N.O.S (Florfe) ENVIF N.O.S (Florfe) ENVIF N.O.S (Florfe) 	D82 RONMENTALLY HAZARDOUS SUBSTANCE, LIQUI S. enicol) RONMENTALLY HAZARDOUS SUBSTANCE, LIQUI S. enicol) RONMENTALLY HAZARDOUS SUBSTANCE, LIQUI S. enicol) RONMENTALLY HAZARDOUS SUBSTANCE, LIQUI S. enicol)		
IATA 14.2 UN p ADN ADR RID IMDG IATA	roper shipping name	 UN 30 ENVIF N.O.S (Florfe) ENVIF N.O.S (Florfe) ENVIF N.O.S (Florfe) ENVIF N.O.S (Florfe) ENVIF N.O.S (Florfe) ENVIF N.O.S (Florfe) 	2082 RONMENTALLY HAZARDOUS SUBSTANCE, LIQUI S. enicol) RONMENTALLY HAZARDOUS SUBSTANCE, LIQUI S. enicol) RONMENTALLY HAZARDOUS SUBSTANCE, LIQUI S. enicol) RONMENTALLY HAZARDOUS SUBSTANCE, LIQUI S. enicol) pomentally hazardous substance, liquid, n.o.s. enicol)		
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	rid IMDG		:	9 9	
	IATA			9	
14.4		ig group	•	Ũ	
	Classif	g group ication Code I Identification Number	:	III M6 90 9	
	Classifi Hazard Labels	g group ication Code I Identification Number restriction code	:	III M6 90 9 (-)	
	Classifi	g group ication Code I Identification Number	:	III M6 90 9	
	IMDG Packing Labels EmS C	g group ode	:	III 9 F-A, S-F	
	aircraft Packin	g instruction (cargo	:	964 Y964 III Miscellaneous	
	Packing ger airc Packing	J	:	964 Y964 III Miscellaneous	
14.5		nmental hazards	•		
	ADN Enviror	nmentally hazardous	:	yes	
	ADR Enviror	nmentally hazardous	:	yes	
	RID Enviror	nmentally hazardous	:	yes	
	IMDG Marine	pollutant	:	yes	
	IATA (Passenger)			



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Envir	onmentally hazardous	: yes	
	(Cargo) conmentally hazardous	: yes	
14.6 Spec	cial precautions for u	ser	
base Shee	d upon the properties of	of the unpackaged ma ifications may vary by	for informational purposes only, and solely terial as it is described within this Safety Data mode of transportation, package sizes, and var-
14.7 Tran	sport in bulk accordi	ing to Annex II of Mar	pol and the IBC Code
Rem	arks	: Not applicable	for product as supplied.
15.1 Safe	N 15: Regulatory in ty, health and enviro		egislation specific for the substance or mix-
15.1 Safe ture The o	ty, health and enviro	nmental regulations/l product are reported i	n the following inventories:
15.1 Safe ture	ty, health and enviro	nmental regulations/	n the following inventories:
15.1 Safe ture The o	ty, health and enviro	nmental regulations/l product are reported i	n the following inventories:
15.1 Safe ture The o DSL	ty, health and environ components of this p	nmental regulations/l product are reported i : not determined	n the following inventories:
15.1 Safe ture The O DSL AICS IECS 15.2 Cher	ty, health and environ components of this p	nmental regulations/l product are reported i : not determined : not determined : not determined	n the following inventories:
15.1 Safe ture The o DSL AICS IECS 15.2 Cher A Chemic	ty, health and environ components of this p SC mical safety assessm	nmental regulations/ product are reported i i not determined i not determined i not determined has not been carried o	n the following inventories:

Other information	:	Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.
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Full text of H-Statements	
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H360D	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.
Full text of other abbreviation	S
Aquatic Acute Aquatic Chronic Eye Irrit. Repr. Skin Irrit.	Short-term (acute) aquatic hazard Long-term (chronic) aquatic hazard Eye irritation Reproductive toxicity Skin irritation



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STOT I STOT S 2004/3	SE	: Specific target or : Europe. Directive	gan toxicity - repeated exposure gan toxicity - single exposure 2004/37/EC on the protection of workers ated to exposure to carcinogens or mutagens
2004/3 2009/1	61/EU 7/EC / STEL 7/EC / TWA 61/EU / TWA 61/EU / STEL	: Europe. COMMIS a third list of indic	ure limit ure limit t hours

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	:	Internal technical data, data from raw material SDSs, OECD
compile the Safety Data Sheet		eChem Portal search results and European Chemicals Agen- cy, http://echa.europa.eu/
oneer		by, http://condicaropa.cu/

Classification of the mixture:Classification procedure:Skin Irrit. 2H315Calculation method



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Eye Irr	rit. 2	H319	Calculation method
Repr.	1B	H360Df	Calculation method
STOT	SE 3	H335	Calculation method
STOT	RE 1	H372	Calculation method
Aquati	c Acute 1	H400	Calculation method
Aquati	c Chronic 1	H410	Calculation method

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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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