

Florfenicol Formulation

Version 2.8	Revision Date: 30.09.2023	SDS Number: 7681961-00010		Date of last issue: 04.04.2023 Date of first issue: 15.12.2020						
SECTION	SECTION 1. PRODUCT AND COMPANY IDENTIFICATION									
Produ	uct name	:	Florfenicol For	mulation						
Manu	facturer or supplier	's detai	ls							
Comp	bany	:	MSD							
Addre	ess	:		ento Soares, 530 Paulo - Brazil CEP 12730-340						
Telep	hone	:	908-740-4000							
Emer	gency telephone	:	1-908-423-600	0						
E-ma	il address	:	EHSDATASTE	WARD@msd.com						
Reco	mmended use of the	e chem	ical and restric	tions on use						
	mmended use ictions on use	:	Veterinary proe Not applicable							

SECTION 2. HAZARDS IDENTIFICATION

GHS	Classification	in accordance v	with ARNT NRR	14725 Standard
0110	Classification	In accordance v		ITIZJ Stanuaru

Acute toxicity (Oral)	:	Category 5
Skin irritation	:	Category 2
Eye irritation	:	Category 2A
Reproductive toxicity	:	Category 1B
Specific target organ toxicity - single exposure	:	Category 3
Specific target organ toxicity - repeated exposure	:	Category 1 (Liver, Brain, Testis, Spinal cord, Blood, gallbladder)
Short-term (acute) aquatic hazard	:	Category 1
Long-term (chronic) aquatic hazard	:	Category 1

GHS label elements in accordance with ABNT NBR 14725 Standard



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Haza	rd pictograms		
Signa	ll Word	: Danger	
Haza	rd Statements	H315 Causes H319 Causes H335 May cau H360Df May of fertility. H372 Causes cord, Blood, g sure.	harmful if swallowed. skin irritation. serious eye irritation. use respiratory irritation. damage the unborn child. Suspected of damaging damage to organs (Liver, Brain, Testis, Spinal allbladder) through prolonged or repeated expo- kic to aquatic life with long lasting effects.
Preca	autionary Statements	P264 Wash sl P273 Avoid re P280 Wear pr tion/ face prot Response:	OISON CENTER/ doctor if you feel unwell.

Other hazards which do not result in classification None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Classification	Concentration (% w/w)
N-Methyl-2-pyrrolidone	872-50-4	Flammable liquids, Category 4 Acute toxicity (Oral), Category 5 Skin irritation, Category 2 Eye irritation, Category 2A Reproductive toxicity, Category 1B Specific target organ toxicity - single expo- sure, Category 3	>= 30 -< 50
Florfenicol	73231-34-2	Acute toxicity (Oral), Category 5	>= 25 -< 30



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			Reproductive toxicity, Category 2 Specific target organ toxicity - repeated exposure (Liver, Brain, Testis, Spinal cord, Blood, gallbladder), Category 1 Short-term (acute) aquatic hazard, Category 1 Long-term (chronic) aquatic hazard, Category 1	

SECTION 4. FIRST AID MEASURES

General advice	:	In the case of accident or if you feel unwell, seek medical advice immediately. When symptoms persist or in all cases of doubt seek medical advice.
If inhaled	:	If inhaled, remove to fresh air. Get medical attention.
In case of skin contact	:	In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.
In case of eye contact	:	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.
Most important symptoms and effects, both acute and delayed	:	May be harmful if swallowed. Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation. May damage the unborn child. Suspected of damaging fertili- ty. Causes damage to organs through prolonged or repeated
Protection of first-aiders	:	exposure. First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment when the potential for exposure exists (see section 8).
Notes to physician	:	Treat symptomatically and supportively.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media : Water spray



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			Alcohol-resistan Carbon dioxide (Dry chemical	
Unsui media	itable extinguishing a	:	None known.	
Speci fightir	fic hazards during fire	:	Exposure to con	bustion products may be a hazard to health.
Haza	rdous combustion prod-	:	Carbon oxides Nitrogen oxides	(NOx)
Speci ods	fic 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 c
	al protective equipment e-fighters	:	In the event of fi	re, wear self-contained breathing apparatus. otective equipment.
SECTION	6. ACCIDENTAL RELE	ASI	E MEASURES	
tive e	onal precautions, protec- quipment and emer- / procedures	:	Follow safe hand	otective equipment. dling advice (see section 7) and personal ment recommendations (see section 8).
Enviro	onmental precautions	:	Prevent further le Prevent spreadin oil barriers). Retain and dispo	the environment. eakage or spillage if safe to do so. ng over a wide area (e.g., by containment or ose of contaminated wash water. should be advised if significant spillages ined.
	ods and materials for inment and cleaning up	:	For large spills, j containment to k can be pumped, container. Clean up remain absorbent. Local or national disposal of this r employed in the determine which Sections 13 and	ert absorbent material. provide diking or other appropriate teep material from spreading. If diked material store recovered material in appropriate ing materials from spill with suitable regulations may apply to releases and naterial, as well as those materials and items cleanup of releases. You will need to regulations are applicable. 15 of this SDS provide information regarding ational requirements.

SECTION 7. HANDLING AND STORAGE

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.



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Hygiene measures		 Do not breathe mist or vapors. 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 assessment Keep container tightly closed. Already sensitized individuals, and those susceptible to asthma, allergies, chronic or recurrent respiratory disease, should consult their physician regarding working with respiratory irritants or sensitizers. Do not eat, drink or smoke when using this product. Take care to prevent spills, waste and minimize release to the environment. If exposure to chemical is likely during typical use, provide eye 				
		place. When using do Wash contami The effective of engineering co appropriate de industrial hygio	ms and safety showers close to the working o not eat, drink or smoke. nated clothing before re-use. operation of a facility should include review of ontrols, proper personal protective equipment, gowning and decontamination procedures, ene monitoring, medical surveillance and the strative controls.			
Con	ditions for safe storage	Store locked u Keep tightly cl Keep in a cool				
Mat	erials to avoid	: Do not store w Strong oxidizir	vith the following product types: ng agents ubstances and mixtures			

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Florfenicol	73231-34-2	TWA	100 µg/m3 (OEB 2)	Internal

Biological occupational exposure limits

Components	CAS-No.	Control parameters	Biological specimen	Sam- pling time	Permissible concentra- tion	Basis
N-Methyl-2-pyrrolidone	872-50-4	5-Hydroxy- N-methyl-2-	Urine	End of workday	100 mg/l	BR BEI



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			pyrrolidone				
			5-Hydroxy- N-methyl-2- pyrrolidone	Urine	End of shift (As soon as possible after exposure ceases)	100 mg/l	ACGIH BEI
Engii	neering measures	te le A di p	se appropriate echnologies to c ss quick conne Il engineering c esign and opera rotect products, aboratory opera	ontrol airbor ctions). ontrols shou ated in acco workers, ar	rne concentr Ild be impler rdance with nd the envirc	rations (e.g., on nented by fact GMP principlo nment.	drip- cility es to
Perse	onal protective equi	pment					
Resp	iratory protection	e	adequate local xposure assess commended gu	ment demo	nstrates exp	osures outsic	
	lter type		ombined partice				
	protection aterial	: C	hemical-resista	nt gloves			
	protection	lf m M p [.] a	/ear safety glas the work envirc ists or aerosols /ear a faceshiel otential for direc erosols.	nment or ac , wear the a d or other fu t contact to	ctivity involve appropriate g Ill face prote the face wit	es dusty conc joggles. ction if there	is a
Skin a	and body protection	: V	/ork uniform or	aboratory c	oat.		
SECTION	9. PHYSICAL AND	CHEMICA		S			
Appe	arance	: 1	iquid				

Appearance	•	liquiu
Color	:	yellow
Odor	:	No data available
Odor 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



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Flammability (liquids	s) : No	o data available	
Upper explosion lim flammability limit	it / Upper : No	o data available	
Lower explosion lim flammability limit	it / Lower : No	o data available	
Vapor pressure	: No	o data available	
Relative vapor dens	ity : No	o data available	
Relative density	: No	o data available	
Density	: 1,0	050 - 1,250 g/cr	n ³
Solubility(ies) Water solubility	: No	o data available	
Partition coefficient: octanol/water	n- : No	ot applicable	
Autoignition tempera	ature : No	o data available	
Decomposition temp	perature : No	o data available	
Viscosity Viscosity, kinema	atic : No	o data available	
Explosive properties	; No	ot explosive	
Oxidizing properties	: Th	e substance or	mixture is not classified as oxidizing.
Molecular weight	: No	o data available	
Particle size	: No	ot applicable	

SECTION 10. STABILITY AND REACTIVITY

Reactivity Chemical stability		Not classified as a reactivity hazard. Stable under normal conditions.
Possibility of hazardous reac- tions	:	Can react with strong oxidizing agents.
Conditions to avoid	:	None known.
Incompatible materials	:	Oxidizing agents
Hazardous decomposition products	:	No hazardous decomposition products are known.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of	:	Inhalation
exposure		Skin contact
		Ingestion



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				Eye contact	
	May b	toxicity e harmful if swallowed.			
	<u>Produ</u> Acute	<u>ict:</u> oral toxicity	:	Acute toxicity esti Method: Calculati	mate: 4.747 mg/kg on method
	<u>Comp</u>	onents:			
	N-Met	hyl-2-pyrrolidone:			
	Acute	oral toxicity	:	LD50 (Rat): 4.150	mg/kg
	Acute	inhalation toxicity	:	LC50 (Rat): > 5,1 Exposure time: 4 Test atmosphere: Method: OECD Te	h dust/mist
	Acute	dermal toxicity	:	LD50 (Rat): > 5.0	00 mg/kg
	Florfe	nicol:			
	Acute	oral toxicity	:	LD50 (Rat): > 2.0	00 mg/kg
				LD50 (Mouse): >	2.000 mg/kg
				LD50 (Dog): > 1.2	280 mg/kg
	Acute	inhalation toxicity	:	LC50 (Rat): > 0,2 Exposure time: 4	
	Acute	dermal toxicity	:	Remarks: No data	a available
		toxicity (other routes of istration)	:	LD50 (Rat): 1.913 Application Route	
				LD50 (Mouse): 10 Application Route	
	-	corrosion/irritation			
	<u>Comp</u>	onents:			
	N-Met	hyl-2-pyrrolidone:			
	Result	t	:	Skin irritation	
	Florfe				
	Specie Result		:	Rabbit No skin irritation	



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	us eye damage/eye		n	
Cause	es serious eye irritatio	n.		
<u>Comp</u>	oonents:			
N-Me	thyl-2-pyrrolidone:			
Speci	es	:	Rabbit	
Resul	t	:	Irritation to eye	s, reversing within 21 days
Florfe	enicol:			
Speci		-	Rabbit	
Resul	t	:	Mild eye irritatio	n
Resp	iratory or skin sensi	tizatior	1	
Skin	sensitization			
Not cl	assified based on ava	ailable i	nformation.	
Resp	iratory sensitization			
-	assified based on ava	ailable i	nformation.	
<u>Comp</u>	oonents:			
N-Me	thyl-2-pyrrolidone:			
Test 7				de assay (LLNA)
	es of exposure		Skin contact	
Speci Metho			Mouse OECD Test Gu	idaliaa 120
Resul			negative	
Rema			-	from similar materials
Florfe	enicol:			
Test 7		:	Maximization T	est
Speci			Guinea pig	
Resul	t	:	negative	
Germ	cell mutagenicity			
Not cl	assified based on ava	ailable i	nformation.	
Comp	oonents:			
N-Me	thyl-2-pyrrolidone:			
	toxicity in vitro	:	Test Type: Bac	terial reverse mutation assay (AMES)
				Test Guideline 471
				tro mammalian cell gene mutation test Test Guideline 476 e
				A damage and repair, unscheduled DNA syr nalian cells (in vitro) e



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Geno	toxicity in vivo	cytogenetic as Species: Mou Application Re Method: OEC Result: negati	se oute: Ingestion D Test Guideline 474 ve
		cytogenetic te Species: Ham Application Re	oute: Ingestion D Test Guideline 475
Florf	enicol:		
Geno	toxicity in vitro	: Test Type: Ba Result: negati	acterial reverse mutation assay (AMES)
		thesis in mam	NA damage and repair, unscheduled DNA syn- Imalian cells (in vitro) rat hepatocytes ive
			vitro mammalian cell gene mutation test mouse lymphoma cells ive
			nromosome aberration test in vitro Chinese hamster ovary cells /e
Geno	toxicity in vivo	: Test Type: Mi Species: Mou Cell type: Bor Application Ro Result: negati	ne marrow pute: Oral
	i nogenicity lassified based on avai	lable information.	
Com	ponents:		
N-Me	thyl-2-pyrrolidone:		
_			

Species Application Route Exposure time Result	:	Rat Ingestion 2 Years negative
Species Application Route Exposure time Result	::	Rat inhalation (vapor) 2 Years negative



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Spec Appli Expo Resu	cation Route sure time	:	Rat oral (gavage) 2 Years negative Liver, Testes	
Expo Resu	cation Route sure time	:	Mouse oral (gavage) 2 Years negative Testes, Blood	
May	oductive toxicity damage the unborn child ponents:	l. Su	ispected of damagi	ng fertility.
	thyl-2-pyrrolidone: ts on fertility	:	Test Type: Two-g Species: Rat Application Route Method: OECD To Result: negative	
Effec	ts on fetal development	:	Test Type: Embry Species: Rat Application Route Method: OECD To Result: positive	
			Species: Rat	y/early embryonic development : inhalation (vapor)
			Test Type: Embry Species: Rabbit Application Route Result: positive	o-fetal development : Ingestion
Repro sessr	oductive toxicity - As- nent	:	Clear evidence of animal experimen	adverse effects on development, based on ts.
Florf	enicol:			
-	ts on fertility	:	Species: Rat Application Route Fertility: LOAEL:	eneration reproduction toxicity study : Oral l2 mg/kg body weight l pup survival, reduced lactation
Effec	ts on fetal development	:	Species: Rat	o-fetal development /laternal: NOAEL: 4 mg/kg body weight



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			Result: No teratog	ity.: LOAEL: 40 mg/kg body weight enic effects., Fetotoxicity. ects were seen only at maternally toxic d
			Species: Mouse Application Route: General Toxicity M	laternal: NOAEL: 120 mg/kg body weigh ity.: LOAEL: 40 mg/kg body weight
Repro sessr	oductive toxicity - As- nent	:	fertility, based on a	adverse effects on sexual function and animal experiments., Some evidence of development, based on animal
	F-single exposure cause respiratory irritat	ion.		
<u>Com</u>	ponents:			
	ethyl-2-pyrrolidone: ssment	:	May cause respira	tory irritation.
Caus	F-repeated exposure es damage to organs (ed or repeated exposure		Brain, Testis, Spin	al cord, Blood, gallbladder) through pro-
<u>Com</u>	ponents:			
Florf	enicol:			
	et Organs ssment	:		s, Spinal cord, Blood, gallbladder o organs through prolonged or repeated
Repe	ated dose toxicity			
Com	ponents:			
N-Me	thyl-2-pyrrolidone:			
Spec NOA LOAE Appli	EL EL cation Route sure time		Rat, male 169 mg/kg 433 mg/kg Ingestion 90 Days OECD Test Guide	line 408



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	EL	: Rabbit : 826 mg/kg : 1.653 mg/kg : Skin contact : 20 Days	
Florf	enicol:		
		: Dog : 3 mg/kg : 13 Weeks : Liver, Testis,	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, gallblac	lder
	EL	: Rat : 1 mg/kg : 3 mg/kg : 52 Weeks : Testis	
-	ration toxicity	ilable information	
	erience with human ex		
-	ponents:		
N-Me	ethyl-2-pyrrolidone:		
	contact	: Symptoms: S	kin irritation
SECTION	12. ECOLOGICAL IN	FORMATION	
Ecot	oxicity		
<u>Com</u>	ponents:		
	ethyl-2-pyrrolidone: Sity to fish	: LC50 (Oncort Exposure time	nynchus mykiss (rainbow trout)): > 500 mg/l e: 96 h



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	Toxicity to daphnia and other aquatic invertebrates Toxicity to algae/aquatic plants		:	EC50 (Daphnia m Exposure time: 24 Method: DIN 3841		
			:	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 2 h	
á		city to daphnia and other tic invertebrates (Chron- kicity)		NOEC (Daphnia r Exposure time: 21 Method: OECD Te		
-	Toxicity	to microorganisms	:	: EC50: > 600 mg/l Exposure time: 30 min Method: ISO 8192		
	Florfen	licol:				
		oxicity to fish		LC50 (Lepomis m Exposure time: 96 Method: FDA 4.11		
				LC50 (Oncorhync Exposure time: 96 Method: FDA 4.11		
	Toxicity to daphnia and other aquatic invertebrates		:	EC50 (Daphnia m Exposure time: 48 Method: OECD Te		
	Toxicity plants	icity to algae/aquatic its		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 To		



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			Exposure time: 7	ibba (gibbous duckweed)): 0,39 mg/l ʿd īest Guideline 221
			Exposure time: 7	oelliculosa (Freshwater diatom)): 61 mg/l 2 h ⁻ est Guideline 201
			Exposure time: 7	pelliculosa (Freshwater diatom)): 19 mg/l 2 h ⁻ est Guideline 201
			Exposure time: 7	a flos-aquae): 0,066 mg/l 2 h Fest Guideline 201
			Exposure time: 7	a flos-aquae): 0,051 mg/l 2 h Fest Guideline 201
	or (Acute aquatic tox-	:	10	
icity) Toxicity icity)	y to fish (Chronic tox-	:	Exposure time: 3	les promelas (fathead minnow)): 5,5 mg/ 2 d ⁻ est Guideline 210
	y to daphnia and other invertebrates (Chron- ity)	:	Exposure time: 2	magna (Water flea)): 1,5 mg/l 1 d ⁻ est Guideline 211
M-Fact toxicity	or (Chronic aquatic)	:	10	
Persist	tence and degradabili	ty		
Compo	onents:			
	nyl-2-pyrrolidone: radability	:	Result: Readily b Biodegradation: Exposure time: 2 Method: OECD T	73 %
Bioacc	cumulative potential			
Compo	onents:			
	n yl-2-pyrrolidone: n coefficient: n- l/water	:	log Pow: -0,46 Method: OECD T	Fest Guideline 107
Florfer Partitio octanol	n coefficient: n-	:	log Pow: 0,373 pH: 7	

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Mobili	ty in soil						
<u>Comp</u>	onents:						
Florfe	nicol:						
	ution among environ-	:	Koc: 52				
mental compartments			Method: FDA 3.0	3			
	adverse effects						
No dat	a available						
CTION 1	3. DISPOSAL CONSI	DER	ATIONS				
Dispos	sal methods						
Waste	from residues	:		waste into sewer.			
Contar	ninated packaging	:	 Dispose of in accordance with local regulations. Empty containers should be taken to an approved waste handling site for recycling or disposal. 				
			If not otherwise specified: Dispose of as unused product.				
CTION 1	4. TRANSPORT INFO	RM	ATION				
Interna	ational Regulations						
UNRT	DG						
UN nu	mber	:	UN 3082				
	shipping name	:	N.O.S.	ALLY HAZARDOUS SUBSTANCE, LIQUID			
Proper Class		:	N.O.S. (Florfenicol) 9	ALLY HAZARDOUS SUBSTANCE, LIQUID			
Proper Class Packin	g group	:	N.O.S. (Florfenicol) 9 III	ALLY HAZARDOUS SUBSTANCE, LIQUID			
Proper Class Packin Labels	g group	:	N.O.S. (Florfenicol) 9 III 9	ALLY HAZARDOUS SUBSTANCE, LIQUID			
Proper Class Packin Labels Enviror	g group nmentally hazardous	:	N.O.S. (Florfenicol) 9 III	ALLY HAZARDOUS SUBSTANCE, LIQUID			
Proper Class Packin Labels Enviror	g group nmentally hazardous D GR	:	N.O.S. (Florfenicol) 9 III 9 yes	ALLY HAZARDOUS SUBSTANCE, LIQUID			
Proper Class Packin Labels Environ IATA-I UN/ID	g group nmentally hazardous D GR	:	N.O.S. (Florfenicol) 9 III 9 yes UN 3082	ALLY HAZARDOUS SUBSTANCE, LIQUID			
Proper Class Packin Labels Environ IATA-I UN/ID Proper	g group nmentally hazardous DGR No.	:	N.O.S. (Florfenicol) 9 III 9 yes UN 3082 Environmentally H (Florfenicol)				
Proper Class Packin Labels Environ IATA-I UN/ID Proper Class	g group nmentally hazardous DGR No. shipping name		N.O.S. (Florfenicol) 9 III 9 yes UN 3082 Environmentally H (Florfenicol) 9				
Proper Class Packin Labels Enviror IATA-I UN/ID Proper Class Packin	g group nmentally hazardous DGR No. shipping name		N.O.S. (Florfenicol) 9 III 9 yes UN 3082 Environmentally H (Florfenicol) 9 III				
Proper Class Packin Labels Environ IATA-I UN/ID Proper Class Packin Labels Packin	g group nmentally hazardous DGR No. shipping name g group g instruction (cargo		N.O.S. (Florfenicol) 9 III 9 yes UN 3082 Environmentally H (Florfenicol) 9				
Proper Class Packin Labels Environ IATA-I UN/ID Proper Class Packin Labels Packin aircraft Packin	g group nmentally hazardous DGR No. shipping name g group g instruction (cargo t) g instruction (passen-		N.O.S. (Florfenicol) 9 III 9 yes UN 3082 Environmentally f (Florfenicol) 9 III Miscellaneous				
Proper Class Packin Labels Environ IATA-I UN/ID Proper Class Packin Labels Packin aircraft Packin ger aird	g group nmentally hazardous DGR No. shipping name g group g instruction (cargo t) g instruction (passen-		N.O.S. (Florfenicol) 9 III 9 yes UN 3082 Environmentally H (Florfenicol) 9 III Miscellaneous 964				
Proper Class Packin Labels Environ IATA-I UN/ID Proper Class Packin Labels Packin aircraft Packin ger airc Environ	g group nmentally hazardous DGR No. shipping name g group g instruction (cargo t) ig instruction (passen- craft) nmentally hazardous Code		N.O.S. (Florfenicol) 9 III 9 yes UN 3082 Environmentally H (Florfenicol) 9 III Miscellaneous 964 964 yes				
Proper Class Packin Labels Environ IATA-I UN/ID Proper Class Packin Labels Packin aircraft Packin ger airc Environ IMDG- UN nu	g group nmentally hazardous DGR No. shipping name g group g instruction (cargo t) ig instruction (passen- craft) nmentally hazardous Code mber		N.O.S. (Florfenicol) 9 III 9 yes UN 3082 Environmentally H (Florfenicol) 9 III Miscellaneous 964 964 yes UN 3082	nazardous substance, liquid, n.o.s.			
Proper Class Packin Labels Environ IATA-I UN/ID Proper Class Packin Labels Packin aircraft Packin ger airc Environ IMDG- UN nu	g group nmentally hazardous DGR No. shipping name g group g instruction (cargo t) ig instruction (passen- craft) nmentally hazardous Code		N.O.S. (Florfenicol) 9 III 9 yes UN 3082 Environmentally H (Florfenicol) 9 III Miscellaneous 964 964 yes UN 3082 ENVIRONMENT/ N.O.S.	nazardous substance, liquid, n.o.s.			
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Vers 2.8	sion	Revision Date: 30.09.2023		S Number: 81961-00010	Date of last issue: 04.04.2023 Date of first issue: 15.12.2020
	EmS Code Marine pollutant		:	F-A, S-F yes	
	Transport in bulk according Not applicable for product as				OL 73/78 and the IBC Code
	Domestic regulation				
	ANTT UN number Proper shipping name Class Packing group Labels Hazard Identification Number			UN 3082 ENVIRONMENTA N.O.S. (Florfenicol) 9 III 9 90	LLY HAZARDOUS SUBSTANCE, LIQUID,
	Special precautions for user The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.				al as it is described within this Safety Data

SECTION 15. REGULATORY INFORMATION

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

National List of Carcinogenic Agents for Humans - (LINACH)	:	Not applicable
Brazil. List of chemicals controlled by the Federal Police	:	Not applicable

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

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

SECTION 16. OTHER INFORMATION

Revision Date	:	30.09.2023
Date format	:	dd.mm.yyyy

Further information

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

Full text of other abbreviations



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2.8		7681961-00010	Date of first issue: 15.12.2020
ACGI BR BI			ical Exposure Indices (BEI) rameters for Biological Control of Occupational

Exposure to Some Chemical Agents

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR -Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration: NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

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 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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