

Version 3.9	Revision Date: 30.09.2023		OS Number: 8725-00019	Date of last issue: 04.04.2023 Date of first issue: 16.09.2016
SECTION	1: Identification of	the	substance/mixt	ure and of the company/undertaking
	ct identifier e name	:	Florfenicol (with T	riacetin) Liquid Formulation
1.2 Releva	ant identified uses of	the s	ubstance or mixt	ure and uses advised against
Use	of the Sub- e/Mixture	:	Veterinary produc	_
Reco on us	mmended restrictions e	:	Not applicable	
1 3 Detail	s of the supplier of the	a saf	oty data sheet	
Com		:	MSD 20 Spartan Road 1619 Spartan, So	outh Africa
Telep	phone	:	+27119239300	
	il address of person onsible for the SDS	:	EHSDATASTEW	ARD@msd.com
-	gency telephone numb 08-423-6000	ber		
SECTION	N 2: Hazards identifi	catio	on	
2.1 Class	ification of the substa	nce	or mixture	

Classification (REGULATION (EC) No 1272/2008)

Eye irritation, Category 2	H319: Causes serious eye irritation.
Reproductive toxicity, Category 1B	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.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

:

Hazard pictograms



Signal word



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Hazaro	d statements	H360FD child. H372 Cause peated exposu	s serious eye irritation. May damage fertility. May damage the unborn s damage to organs through prolonged or re- ire. oxic to aquatic life with long lasting effects.
Precautionary statements		P273 Avoid	special instructions before use. release to the environment. protective gloves/ protective clothing/ eye protec- ection.
		Response: P308 + P313 attention. P337 + P313 attention. P391 Collect	IF exposed or concerned: Get medical advice/ If eye irritation persists: Get medical advice/ t spillage.

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

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)
2-Pyrrolidone	616-45-5 210-483-1	Eye Irrit. 2; H319 Repr. 1B; H360FD	>= 30 - < 50
Florfenicol	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	>= 30 - < 50



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			aquatic toxicity): 10 M-Factor (Chronic aquatic toxicity): 10	

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 soap and plenty • of water. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse. In case of contact, immediately flush eyes with plenty of water In case of eye contact 1 for at least 15 minutes. If easy to do, remove contact lens, if worn. Get medical attention. If swallowed, DO NOT induce vomiting. If swallowed : Get medical attention. Rinse mouth thoroughly with water. 4.2 Most important symptoms and effects, both acute and delayed Risks Causes serious eye irritation. : May damage fertility. May damage the unborn child. Causes damage to organs through prolonged or repeated exposure. 4.3 Indication of any immediate medical attention and special treatment needed Treatment : Treat symptomatically and supportively.

SECTION 5: Firefighting measures

5.1	Extingu	uishing	media
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Suitable extinguishing media	:	Water spray
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			Alcohol-resistant Carbon dioxide ((Dry chemical	
Unsuitable extinguishing media		:	None known.	
5.2 Spe	cial hazards arising from	n the	e substance or mi	xture
•			Exposure to combustion products may be a hazard to health.	
Hazardous combustion prod- ucts		:	Carbon oxides Nitrogen oxides (NOx)	
5.3 Adv	ce for firefighters			
Special protective equipment for firefighters		:		e, wear self-contained breathing apparatus. tective equipment.
Specific extinguishing meth- : ods		:	Use extinguishing measures that are appropriate to local cir- cumstances and the surrounding environment. Use water spray to cool unopened containers. Remove undamaged containers from fire area if it is safe to c so. Evacuate area.	

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).
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6.2 Environmental precautions

Prevent barriers Retain a Local au	further leakage or spillage if safe to do so. spreading over a wide area (e.g. by containment or oil and dispose of contaminated wash water. uthorities should be advised if significant spillages be contained.
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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-



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		Sections 13 and	ulations are applicable. d 15 of this SDS provide information regarding national requirements.
	ence to other sections ns: 7, 8, 11, 12 and 13.		
SECTION	I 7: Handling and st	orage	
7.1 Preca	utions for safe handlir	Ig	
Techr	nical measures		g measures under EXPOSURE
Local	/Total ventilation		ERSONAL PROTECTION section. tilation is unavailable, use with local exhaust
	e on safe handling	Do not swallow Do not get in ey Wash skin thor Handle in acco practice, based sessment Keep container Do not eat, drin Take care to pr environment. If exposure to o flushing system place. When us nated clothing b The effective op engineering con appropriate deg	mist or vapours. /es. oughly after handling. rdance with good industrial hygiene and safety on the results of the workplace exposure as- tightly closed. k or smoke when using this product. event spills, waste and minimize release to the chemical is likely during typical use, provide eye as and safety showers close to the working sing do not eat, drink or smoke. Wash contami- before re-use. beration of a facility should include review of ntrols, proper personal protective equipment, gowning and decontamination procedures, ne monitoring, medical surveillance and the
7.2 Condi	tions for safe storage,	including any inco	mpatibilities
	irements for storage and containers		ly labelled containers. Store locked up. Keep Store in accordance with the particular national
Advic	e on common storage	Strong oxidizin	ubstances and mixtures
7.3 Specif	ic end use(s)		
-	fic use(s)	: No data availat	ble



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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

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

Substance name	End Use	Exposure routes	Potential health ef- fects	Value
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
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

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Environmental Compartment Value			
2-Pyrrolidone	Fresh water	0,5 mg/l			
	Freshwater - intermittent	0,5 mg/l			
	Marine water	0,05 mg/l			
	Sewage treatment plant	10 mg/l			
	Fresh water sediment	0,4205 mg/kg dry weight (d.w.)			
	Soil	0,0612 mg/kg dry weight (d.w.)			
triacetin	Fresh water	1,88 mg/l			
	Marine water	0,188 mg/l			
	Intermittent use/release	1 mg/l			



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1		Sewage treat	tment plant	1088 mg/l		
		Fresh water s	sediment	4,73 mg/kg		
		Marine sedim	nent	0,47 mg/kg		
		Soil		0,57 mg/kg		
		Oral (Second	lary Poisoning)	69,9 mg/kg food		

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 Respiratory protection	:	Work uniform or laboratory coat. If adequate local exhaust ventilation is not available or expo- sure assessment demonstrates exposures outside the rec- ommended guidelines, use respiratory protection.
Filter type	:	

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and 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	:	No data available
range 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	:	No data available

SAFETY DATA SHEET



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t	flamma	ability limit			
,	Vapour	rpressure	:	No data available	e
I	Relativ	e vapour density	:	No data available	e
I	Relativ	e density	:	No data available	e
I	Density	/	:	No data available	e
	Partitio octanol Auto-ig Decom Viscosi Viscosi	ter solubility n coefficient: n- l/water nition temperature position temperature	::	No data available Not applicable No data available No data available No data available Not explosive	e e
	•	ng properties	:	·	r mixture is not classified as oxidizing.
9.2 C)ther ir Flamm	nformation ability (liquids)	:	No data available	
	Particle	e size	:	Not applicable	

SECTION 10: Stability and reactivity

10.1 Reactivity

Not classified as a reactivity hazard.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions : Can react with strong oxidizing agents.

10.4 Conditions to avoid

Conditions to avoid : None known.

10.5 Incompatible materials

Materials to avoid : Oxidizing agents

10.6 Hazardous decomposition products

No hazardous decomposition products are known.



ersion 9	Revision Date: 30.09.2023		S Number: 8725-00019	Date of last issue: 04.04.2023 Date of first issue: 16.09.2016
	11: Toxicological in	for	mation	
.1 Inforr	nation on toxicologica	l ef	fects	
Inform expos	ation on likely routes of ure	:	Inhalation Skin contact Ingestion Eye contact	
	toxicity assified based on availa	ble		
Comp	onents:			
2-Pyr	rolidone:			
Acute	oral toxicity	:		.000 mg/kg Test Guideline 401 ne substance or mixture has no acute oral to
Acute	dermal toxicity	:		> 2.000 mg/kg Test Guideline 402 ne substance or mixture has no acute derma
Florfe	nicol:			
Acute	oral toxicity	:	LD50 (Rat): > 2	.000 mg/kg
			LD50 (Mouse):	> 2.000 mg/kg
			LD50 (Dog): > 1	.280 mg/kg
Acute	inhalation toxicity	:	LC50 (Rat): > 0 Exposure time:	
Acute	dermal toxicity	:	Remarks: No da	ata available
	toxicity (other routes of istration)	:		13 - 2.253 mg/kg te: Intraperitoneal
			LD50 (Mouse): Application Rou	
-	corrosion/irritation assified based on availa	ble	information.	
Comp	onents:			
2-Pyr	rolidone:			
Specie Metho Resul	d	:	Rabbit OECD Test Gui No skin irritatior	



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Speci Resul		: Rabbit : No skin irritatio	on
	us eye damage/eye es serious eye irritatic		
	onents:	"1.	
-	rolidone:	: Rabbit	
Speci Resul			es, reversing within 7 days
	enicol:		
Speci Resul		: Rabbit : Mild eye irritat	ion
Respi	iratory or skin sensi	tisation	
Skin s	sensitisation		
Not cl	assified based on ava	ailable information.	
-	iratory sensitisation assified based on ava		
Comp	oonents:		
2-Pyr	rolidone:		
Test T			ode assay (LLNA)
Expos Speci	sure routes	: Skin contact : Mouse	
Metho		: OECD Test G	uideline 429
Resul		: negative	
Rema	irks	: Based on data	a from similar materials
Florfe	enicol:		
Test T		: Maximisation	Test
Speci Resul		: Guinea pig : negative	
	cell mutagenicity assified based on ava	ailable information	
	oonents:		
2-Pyr	rolidone:		
-	toxicity in vitro	: Test Type: Ba Result: negati	cterial reverse mutation assay (AMES) ve
			vitro mammalian cell gene mutation test D Test Guideline 476 ve



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				romosome aberration test in vitro) Test Guideline 473 /e	
Geno	toxicity in vivo	:	cytogenetic as Species: Mous Application Ro	e ute: Intraperitoneal injection) Test Guideline 474	
Florf	enicol:				
Geno	toxicity in vitro	:	Test Type: Bac Result: negativ	cterial reverse mutation assay (AMES) re	
				ritro mammalian cell gene mutation test nouse lymphoma cells re	
				romosome aberration test in vitro Chinese hamster ovary cells	
Geno	Genotoxicity in vivo		Test Type: Micronucleus test Species: Mouse Cell type: Bone marrow Application Route: Oral Result: negative		
Carci	inogenicity				
	lassified based on av	ailable i	nformation.		
<u>Com</u>	ponents:				
2-Pyr	rolidone:				
Speci Applie	ies cation Route sure time It	:	Mouse Ingestion 18 month(s) negative Based on data	from similar materials	
Florf	enicol:				
Speci		:	Rat		
Applio	cation Route sure time	:	oral (gavage) 2 Years		

: negative : Liver, Testes

Result

Target Organs



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A E R	xposu Result	ion Route re time Drgans		Mouse oral (gavage) 2 Years negative Testes, Blood	
	-	uctive toxicity mage fertility. May dan	nag	e the unborn child.	
<u>C</u>	compo	nents:			
	-	lidone: on fertility	:	Species: Rat Application Route Result: positive	eneration reproduction toxicity study : Ingestion on data from similar materials
	ffects on nent	on foetal develop-	:	Test Type: Embry Species: Rat Application Route Result: positive	o-foetal development : Ingestion
	Reprodi essme	uctive toxicity - As- nt	:	ity, based on anim	adverse effects on sexual function and fertil- nal experiments., Clear evidence of adverse oment, based on animal experiments.
F	lorfen	icol:			
E	ffects	on fertility	:	Species: Rat Application Route Fertility: LOAEL: 1	eneration reproduction toxicity study : Oral I2 mg/kg body weight I pup survival, reduced lactation
	ffects on the second se	on foetal develop-	:	Species: Rat General Toxicity M Embryo-foetal tox Result: No teratog	o-foetal development Maternal: NOAEL: 4 mg/kg body weight icity: LOAEL: 40 mg/kg body weight genic effects, Fetotoxicity ects were seen only at maternally toxic dos-
				Species: Mouse Application Route General Toxicity M	Maternal: NOAEL: 120 mg/kg body weight icity: LOAEL: 40 mg/kg body weight
	Reprodu essme	uctive toxicity - As- nt	:	fertility, based on	f adverse effects on sexual function and animal experiments., Some evidence of n development, based on animal experi-



sion	Revision Date: 30.09.2023	SDS Number: 898725-00019	Date of last issue: 04.04.2023 Date of first issue: 16.09.2016
sтот	- single exposure		
	assified based on av	ailable information.	
STOT	- repeated exposu		
			r repeated exposure.
	onents:	iniougn proionged c	
Florfe			
		Liver Prein	Tastia Spinal aard Plaad gallbladdar
-	t Organs sment		Testis, Spinal cord, Blood, gallbladder age to organs through prolonged or repeated
Repea	ated dose toxicity		
<u>Comp</u>	onents:		
2-Pyri	rolidone:		
Specie		: Rat	
NOAE		: 207 mg/kg	
	ation Route	: Ingestion	
Expos Metho	sure time	: 3 Months	Guideline 408
Metho		. OECD Test	
Florfe	nicol:		
Specie		: Dog	
NOAE		: 3 mg/kg	
	sure time t Organs	: 13 Weeks	Brain Spinal cord
raige	l Organs	. LIVEI, TESUS,	Brain, Spinal cord
Specie	es	: Mouse	
NOAE		: 200 mg/kg	
•	sure time	: 13 Weeks	
Targe	t Organs	: Liver, Testis	
Specie	es	: Rat	
NOAE		: 30 mg/kg	
	sure time	: 13 Weeks	
Targe	t Organs	: Liver, Testis	
Specie		: Dog	
NOAE		: 3 mg/kg	
LOAE		: 12 mg/kg	
	sure time t Organs	: 52 Weeks : Liver, gallbla	dder
raige	Cigans	. Livei, gailbla	
Specie		: Rat	
NOAE		: 1 mg/kg	
LOAE		: 3 mg/kg	
	sure time	: 52 Weeks	
rarge	t Organs	: Testis	

Aspiration toxicity

Not classified based on available information.



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SECTION	ECTION 12: Ecological information					
12.1 Toxicit	ty					
Compo	onents:					
2-Pyrro	olidone:					
Toxicity	/ to fish	:	Exposure time: 9	o (zebra fish)): > 4.600 - 10.000 mg/l 6 h est Guideline 203		
	/ to daphnia and other invertebrates	:	EC50 (Daphnia n Exposure time: 4	nagna (Water flea)): > 500 mg/l 8 h		
Toxicity plants	/ to algae/aquatic	:	ErC50 (Desmode Exposure time: 7	smus subspicatus (green algae)): > 500 mg/ 2 h		
			EC10 (Desmodes Exposure time: 72	smus subspicatus (green algae)): 22,2 mg/l 2 h		
Toxicity	/ to microorganisms	:	EC50 : > 1.000 m Exposure time: 30 Method: OECD T			
Florfer	nicol:					
Toxicity	/ to fish	:	LC50 (Lepomis m Exposure time: 9 Method: FDA 4.1			
			LC50 (Oncorhynd Exposure time: 9 Method: FDA 4.1			
	/ to daphnia and other invertebrates	:	Exposure time: 4	nagna (Water flea)): > 330 mg/l 8 h est Guideline 202		
Toxicity plants	/ to algae/aquatic	:	EC50 (Pseudokir mg/l Exposure time: 1- Method: FDA 4.0			
			NOEC (Pseudoki mg/l Exposure time: 1- Method: FDA 4.0			
			IC50 (Skeletonen Exposure time: 7 Method: ISO 102			
			NOEC (Skeletone Exposure time: 7 Method: ISO 102			



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				Exposure time: 7	bba (gibbous duckweed)): 0,76 mg/l 7 d Test Guideline 221
		Exposure time: 7	jibba (gibbous duckweed)): 0,39 mg/l 7 d Test Guideline 221		
				Exposure time: 7	pelliculosa (Freshwater diatom)): 61 mg/l 72 h Test Guideline 201
				Exposure time: 7	i pelliculosa (Freshwater diatom)): 19 mg/l 72 h Test Guideline 201
				Exposure time: 7	a flos-aquae): 0,066 mg/l 72 h Test Guideline 201
				Exposure time: 7	na flos-aquae): 0,051 mg/l 72 h Test Guideline 201
	M-Fact icity)	or (Acute aquatic tox-	:	10	
	Toxicity icity)	y to fish (Chronic tox-	:		32 d nales promelas (fathead minnow) Test Guideline 210
á		y to daphnia and other invertebrates (Chron- ity)		Exposure time: 2 Species: Daphni	21 d a magna (Water flea) Test Guideline 211
	M-Fact toxicity	or (Chronic aquatic)	:	10	
12.2	Persis	tence and degradabil	ity		
9	Compo	onents:			
	•	olidone: radability	:	Result: Readily I Remarks: Basec	biodegradable. I on data from similar materials
12.3	Bioaco	cumulative potential			
<u>(</u>	Compo	onents:			
	-	olidone: n coefficient: n-	÷	log Pow: -0,71	



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octar	ol/water		Method: OECD T	est Guideline 107
Florf	enicol:			
	ion coefficient: n- ol/water	:	log Pow: 0,373 pH: 7	
12.4 Mobi	ility in soil			
Com	ponents:			
Florf	enicol:			
	bution among environ- al compartments	:	Koc: 52 Method: FDA 3.0	8
12.5 Resu	Ilts of PBT and vPvB a	sse	ssment	
Prod	uct:			
Asse	ssment	:	to be either persi	nixture contains no components considered stent, bioaccumulative and toxic (PBT), or nd very bioaccumulative (vPvB) at levels of
12.6 Othe	er adverse effects			
Prod	uct:			
Endo tial	crine disrupting poten-	:	ered to have end REACH Article 5	ixture does not contain components consid- ocrine disrupting properties according to 7(f) or Commission Delegated regulation or Commission Regulation (EU) 2018/605 at higher.
SECTION	N 13: Disposal consi	der	ations	
13.1 Wast	te treatment methods			
Produ		:		ordance with local regulations. European Waste Catalogue, Waste Codes

5 1 5 7	5
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.	
: Empty containers should be taken to an approved waste ha	an-
dling site for recycling or disposal.	
If not otherwise specified: Dispose of as unused product.	
	 discussion with the waste disposal authorities. Do not dispose of waste into sewer. Empty containers should be taken to an approved waste had ling site for recycling or disposal.

SECTION 14: Transport information

14.1 UN number

ADN	: UN 3082
ADR	: UN 3082



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RID		:	UN 3082	
IMDG		:	UN 3082	
ΙΑΤΑ		:	UN 3082	
14.2 UN p	roper shipping name			
ADN		:	ENVIRONMENT N.O.S. (Florfenicol)	ALLY HAZARDOUS SUBSTANCE, LIQUID,
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. (Florfenicol)	
ΙΑΤΑ		:	Environmentally (Florfenicol)	hazardous substance, liquid, n.o.s.
14.3 Trans	sport hazard class(es)			
			Class	Subsidiary risks
ADN		:	9	
ADR		:	9	
RID		:	9	
IMDG		:	9	
ΙΑΤΑ	ΙΑΤΑ		9	
14.4 Pack	ing group			
Class	ng group ification Code rd Identification Number s	:	III M6 90 9	
Class Hazaı Label	ng group ification Code rd Identification Number s el restriction code	:	III M6 90 9 (-)	
Class	ng group ification Code [.] d Identification Number s	:	III M6 90 9	
IMDG	i			



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	Packing Labels EmS C		:	III 9 F-A, S-F	
	IATA (Cargo) Packing instruction (cargo aircraft) Packing instruction (LQ) Packing group Labels		:	964	
			:	Y964 III Miscellaneous	
	IATA (Passenger) Packing instruction (passen-		:	964	
	ger aircraft) Packing instruction (LQ) Packing group Labels		:	Y964 III Miscellaneous	
14.5	14.5 Environmental hazards		-		
	ADN Enviror	nmentally hazardous	:	yes	
	ADR Enviror	mentally hazardous	:	yes	
	RID Enviror	mentally hazardous	:	yes	
	IMDG Marine	pollutant	:	yes	
		Passenger) Imentally hazardous	:	yes	
	IATA (Cargo) Environmentally hazardous		:	yes	
14.6 Special precautions for use			er		

14.6 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.

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

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Remarks : Not applicable for product as supplied.
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SECTION 15: Regulatory information

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

The components o	f this product	are reported in t	the following inventories:
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AICS	:	not determined
DSL	:	not determined
IECSC	:	not determined



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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						
H319	:	Causes serious eye 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.				
Full text of other abbreviat	tions					
Aquatic Acute	:	Short-term (acute) aquatic hazard				
Aquatic Chronic	:	Long-term (chronic) aquatic hazard				
Eye Irrit.	:	Eye irritation				
Repr.	:	Reproductive toxicity				
STOT RE	:	Specific target organ toxicity - repeated 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 Test- ing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regula- tion (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 - Emergen- cy Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration as- sociated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good La- boratory 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



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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

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

Classification of the m	Classification proced	
Eye Irrit. 2	H319	Calculation method
Repr. 1B	H360FD	Calculation method
STOT RE 1	H372	Calculation method
Aquatic Acute 1	H400	Calculation method
Aquatic Chronic 1	H410	Calculation method

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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