



ersion .0	Revision Date: 06.04.2024		S Number: 2418-00019	Date of last issue: 30.09.2023 Date of first issue: 07.01.2016
Section 1	dentification			
Produ	uct identifier	:	Florfenicol Solid	Formulation
Reco	mmended use of the cl	nem	ical and restriction	ons on use
Reco	mmended use	:		ct
Restr	Restrictions on use		Not applicable	
Manu	facturer or supplier's o	letai	ils	
Comp	bany	:	MSD	
Addre	255	:	50 Tuas West Dr Singapore - Sing	-
Telep	hone	:	+1-908-740-4000)
Emer	gency telephone number	· :	65 6697 2111 (2	4/7/365)
E-mai	il address	:	EHSDATASTEW	/ARD@msd.com

Classification of the substance or mixture

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

GHS Label elements, including precautionary statements

Hazard pictograms	:	
Signal word	:	Danger
Hazard statements	:	H361fd Suspected of damaging fertility. Suspected of damag- ing the unborn child. H372 Causes damage to organs (Liver, Brain, Testis, Spinal cord, Blood, gallbladder) through prolonged or repeated expo- sure.



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		H410 Very tox	tic to aquatic life with long lasting effects.
Preca	autionary statements	P202 Do not h and understod P260 Do not b P264 Wash sh P270 Do not e P273 Avoid re P280 Wear pr	
		Response: P308 + P313 attention. P391 Collect s	IF exposed or concerned: Get medical advice/
		Storage: P405 Store lo	cked up.
		Disposal: P501 Dispose disposal plant	of contents/ container to an approved waste

Other hazards which do not result in classification

Dust contact with the eyes can lead to mechanical irritation. Contact with dust can cause mechanical irritation or drying of the skin. May form explosive dust-air mixture during processing, handling or other means.

Section 3: Composition/information on ingredients

Substance / Mixture	:	Mixture
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Components

Chemical name	CAS-No.	Concentration (% w/w)
Florfenicol	73231-34-2	>= 50 -< 70

Section 4: First-aid measures

Description of necessary 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.				
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. 				



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	se of eye contact Illowed	Wash clot Thorough If in eyes, Get medic If swallow Get medic	cal attention. hing before reuse. ly clean shoes before reuse. rinse well with water. cal attention if irritation develops and persists. ed, DO NOT induce vomiting. cal attention. uth thoroughly with water.
Most	important symptoms a	ind effects, bo	oth acute and delayed
Risks Prote	ction of first-aiders	unborn ch Causes da exposure. Contact w the skin. Dust conta : First Aid r and use th	amage to organs through prolonged or repeated
Indica	ation of any immediate	medical atter	ntion and special treatment needed
Treat			ptomatically and supportively.
ction 5 Exting Suital	Fire-fighting measure guishing media ble extinguishing media	s : Water spr Alcohol-re Carbon di Dry chem	ay esistant foam oxide (CO2) ical
ction 5 Exting Suital	Fire-fighting measure guishing media ble extinguishing media	s : Water spr Alcohol-re Carbon di	ay esistant foam oxide (CO2) ical
ction 5: Exting Suital Unsui media Spec	Fire-fighting measure guishing media ble extinguishing media table extinguishing a ial hazards arising from	s : Water spr Alcohol-re Carbon di Dry chem : None kno n the substan	ay esistant foam oxide (CO2) ical wn. ce or mixture
ction 5: Exting Suital Unsui media Spec	Fire-fighting measure guishing media ble extinguishing media table extinguishing a ial hazards arising fron fic hazards during fire-	 Water spr Alcohol-re Carbon di Dry chem None known None known Avoid gen concentra potential di 	ay esistant foam oxide (CO2) ical wn. ce or mixture ierating dust; fine dust dispersed in air in sufficient tions, and in the presence of an ignition source is a dust explosion hazard.
ction 5 Exting Suital Unsui media Speci fightir	Fire-fighting measure guishing media ble extinguishing media table extinguishing a ial hazards arising fron fic hazards during fire-	 Water spr Alcohol-re Carbon di Dry chem None kno None kno Avoid gen concentra potential o Exposure Carbon ox 	ay esistant foam oxide (CO2) ical wn. ce or mixture terating dust; fine dust dispersed in air in sufficient tions, and in the presence of an ignition source is a dust explosion hazard. to combustion products may be a hazard to health
ction 5 Exting Suital Unsui media Speci fightir Hazau ucts	Fire-fighting measure guishing media ble extinguishing media table extinguishing a ial hazards arising from fic hazards during fire-	 Water spr Alcohol-re Carbon di Dry chem None known None known Avoid gen concentra potential of Exposure Carbon on Nitrogen of 	ay esistant foam oxide (CO2) ical wn. ce or mixture terating dust; fine dust dispersed in air in sufficient tions, and in the presence of an ignition source is a dust explosion hazard. to combustion products may be a hazard to health kides oxides (NOx)



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Section 6: Accidental release measures

	uipment and emergency procedures Use personal protective equipment. Follow safe handling advice (see section 7) and personal pro- tective equipment recommendations (see section 8).
Environmental precautions Environmental precautions :	Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained.
Methods and materials for containn	•
Methods for cleaning up :	Sweep up or vacuum up spillage and collect in suitable con- tainer for disposal. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). Dust deposits should not be allowed to accumulate on surfac- es, as these may form an explosive mixture if they are re- leased into the atmosphere in sufficient concentration. Local or national regulations may apply to releases and dis- posal of this material, as well as those materials and items employed in the cleanup of releases. You will need to deter- mine which regulations are applicable. Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.

Section 7: Handling and storage

Precautions for safe handling	
Technical measures	Static electricity may accumulate and ignite suspended dust causing an explosion. Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres.
Local/Total ventilation	Use only with adequate ventilation.
Advice on safe handling	Do not breathe dust.
	Do not swallow.
	Avoid contact with eyes.
	Avoid prolonged or repeated contact with skin.
	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
	Minimize dust generation and accumulation.
	Keep container closed when not in use.
	Keep away from heat and sources of ignition. Take precautionary measures against static discharges. Do not eat, drink or smoke when using this product.
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Hygie	ne measures	environment. : If exposure to flushing syste place. When using of Wash contan The effective engineering of appropriate of industrial hyg	prevent spills, waste and minimize release to the o chemical is likely during typical use, provide eye ems and safety showers close to the working do not eat, drink or smoke. ninated clothing before re-use. operation of a facility should include review of controls, proper personal protective equipment, degowning and decontamination procedures, giene monitoring, medical surveillance and the istrative controls.		
Cond	itions for safe storag	e, including any incompatibilities			
Condi	tions for safe storage	Store locked	erly labelled containers. up. ordance with the particular national regulations.		
Mater	ials to avoid		with the following product types:		

Section 8: Exposure controls/personal protection

Control parameters

Occupational Exposure Limits

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

Appropriate engineering : control measures	Use feasible engineering controls to minimize exposure to compound. All engineering controls should be implemented by facility design and operated in accordance with GMP principles to protect products, workers, and the environment.
Individual protection measures	s, such as personal protective equipment (PPE)
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.
Skin 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 : Hand protection	Particulates type
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Ν	<i>N</i> aterial	:	Chemical-resistan	nt gloves
Section	9: Physical and chemica	l pr	operties	
Арр	earance	:	powder	
Colo	bur	:	white	
Odo	bur	:	No data available	9
Odo	our Threshold	:	No data available	9
pН		:	No data available	9
Melt	ing point/freezing point	:	No data available	9
Initia rang	al boiling point and boiling ge	:	No data available	
Flas	h point	:	Not applicable	
Eva	poration rate	:	Not applicable	
Flan	nmability (solid, gas)	:	May form explosi dling or other me	ive dust-air mixture during processing, han ans.
Flan	nmability (liquids)	:	No data available	9
	er explosion limit / Upper mability limit	:	No data available	9
	er explosion limit / Lower mability limit	:	No data available	9
Vap	our pressure	:	No data available)
Rela	ative vapour density	:	Not applicable	
Rela	ative density	:	No data available	9
Den	sity	:	No data available	9
	ıbility(ies) Vater solubility	:	No data available	9
	ition coefficient: n-	:	Not applicable	
	nol/water p-ignition temperature	:	No data available	9
Dec	omposition temperature	:	No data available	9
Visc	osity			



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Vi	scosity, kinematic	:	Not applicable				
	osive properties	:	Not explosive				
Oxidi	zing properties	:	The substance o	r mixture is not classified as oxidizing.			
Particle characteristics Particle size			: No data available				
ction 1	0: Stability and reactivi	ty					
	tivity nical stability ibility of hazardous reac-	:	Stable under nor May form explos dling or other me	ive dust-air mixture during processing, har			
Cond	litions to avoid	:	Heat, flames and				
	npatible materials rdous decomposition ucts	:	Avoid dust formation.Oxidizing agentsNo hazardous decomposition products are known.				
ction 1	1: Toxicological inform	atio	n				
Inforr	nation on likely routes of	:	Inhalation Skin contact Ingestion				
expo	Sure		Eye contact				
expos Acut	e toxicity		Eye contact				
expos Acut Not c		ble i	Eye contact				
expos Acute Not c <u>Com</u>	e toxicity lassified based on availa	blei	Eye contact				
Acut Not c <u>Com</u>	e toxicity lassified based on availa ponents:	ble i	Eye contact	00 mg/kg			
Acut Not c <u>Com</u>	e toxicity lassified based on availa ponents: enicol:	ble i :	Eye contact				
Acut Not c <u>Com</u>	e toxicity lassified based on availa ponents: enicol:	ble i	Eye contact nformation. LD50 (Rat): > 2,0	2,000 mg/kg			
Acute Not c <u>Com</u> Florf	e toxicity lassified based on availa ponents: enicol:	:	Eye contact information. LD50 (Rat): > 2,0 LD50 (Mouse): >	2,000 mg/kg 280 mg/kg 8 mg/l			
Acute Not c Com Florf Acute	e toxicity lassified based on availa ponents: enicol: e oral toxicity	:	Eye contact information. LD50 (Rat): > 2,0 LD50 (Mouse): > LD50 (Dog): > 1,2 LC50 (Rat): > 0.2	2,000 mg/kg 280 mg/kg 8 mg/l h			



/ersion 5.0	Revision Date: 06.04.2024		DS Number: 2418-00019	Date of last issue: 30.09.2023 Date of first issue: 07.01.2016
			LD50 (Mouse): 10 Application Route	
Not c	corrosion/irritation lassified based on ava ponents:	ailable	information.	
Florf Spec Resu		:	Rabbit No skin irritation	
Not c	ous eye damage/eye lassified based on ava ponents:			
	enicol: ies	:	Rabbit Mild eye irritation	
Skin	iratory or skin sensi sensitisation lassified based on ava			
Resp Not c	iratory sensitisation lassified based on ava			
	ies	:	Maximisation Tes Guinea pig negative	st
Not c	n cell mutagenicity lassified based on ava	ailable	information.	
	ponents: enicol:			
Geno	otoxicity in vitro	:	Result: negative Test Type: DNA	rial reverse mutation assay (AMES) damage and repair, unscheduled DNA syn- lian cells (in vitro) hepatocytes
				o mammalian cell gene mutation test use lymphoma cells



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Genot	toxicity in vivo		omosome aberration test in vitro hinese hamster ovary cells ronucleus test e marrow ute: Oral
	nogenicity assified based on ava	ilable information.	
	oonents:		
Florfe	enicol:		
Expos Result	ation Route	: Rat : oral (gavage) : 2 Years : negative : Liver, Testes	
Expos Result	ation Route	: Mouse : oral (gavage) : 2 Years : negative : Testes, Blood	
Suspe	oductive toxicity ected of damaging fert ponents:	ility. Suspected of dan	naging the unborn child.
Florfe	enicol:		
Effects	s on fertility	Species: Rat Application Rot Fertility: LOAE	o-generation reproduction toxicity study ute: Oral _: 12 mg/kg body weight sed pup survival, reduced lactation
Effects ment	s on foetal develop-	Species: Rat General Toxicit Embryo-foetal Result: No tera	bryo-foetal development y Maternal: NOAEL: 4 mg/kg body weight toxicity: LOAEL: 40 mg/kg body weight togenic effects, Fetotoxicity effects were seen only at maternally toxic dos
		Test Type: Em Species: Mous	bryo-foetal development



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Repro	oductive toxicity - As- nent	:	Embryo-foetal tox Result: Fetotoxici Some evidence o fertility, based on	Maternal: NOAEL: 120 mg/kg body weight icity: LOAEL: 40 mg/kg body weight
	F - single exposure lassified based on available	able i	information.	
Caus longe	d or repeated exposure		Brain, Testis, Spir	al cord, Blood, gallbladder) through pro-
	ponents:			
Targe	enicol: et Organs ssment	:		s, Spinal cord, Blood, gallbladder o organs through prolonged or repeated
Repe	ated dose toxicity			
Com	ponents:			
Spec NOAI Expo	enicol: ies EL sure time et Organs	:	Dog 3 mg/kg 13 Weeks Liver, Testis, Brai	n, 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, gallbladder	

Species	:	Rat
Species NOAEL	:	1 mg/kg



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LOAEL Exposure time Target Organs	:	3 mg/kg
Exposure time	:	52 Weeks
Target Organs	:	Testis

Aspiration toxicity

Not classified based on available information.

Section 12: Ecological information

Toxicity

Components:

Florfenicol:

:	LC50 (Lepomis macrochirus (Bluegill sunfish)): > 830 mg/l Exposure time: 96 h Method: FDA 4.11
	LC50 (Oncorhynchus mykiss (rainbow trout)): > 780 mg/l Exposure time: 96 h Method: FDA 4.11
:	EC50 (Daphnia magna (Water flea)): > 330 mg/l Exposure time: 48 h Method: OECD Test Guideline 202
:	EC50 (Pseudokirchneriella subcapitata (green algae)): > 2.9 mg/l Exposure time: 14 d Method: FDA 4.01
	NOEC (Pseudokirchneriella subcapitata (green algae)): 2.9 mg/l Exposure time: 14 d Method: FDA 4.01
	IC50 (Skeletonema costatum (marine diatom)): 0.0336 mg/l Exposure time: 72 h Method: ISO 10253
	NOEC (Skeletonema costatum (marine diatom)): 0.00423 mg/l Exposure time: 72 h Method: ISO 10253
	EC50 (Lemna gibba (gibbous duckweed)): 0.76 mg/l Exposure time: 7 d Method: OECD Test Guideline 221
	NOEC (Lemna gibba (gibbous duckweed)): 0.39 mg/l Exposure time: 7 d Method: OECD Test Guideline 221





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			EC50 (Navicula p Exposure time: 72 Method: OECD T	
			NOEC (Navicula Exposure time: 72 Method: OECD T	
			EC50 (Anabaena Exposure time: 72 Method: OECD T	
			NOEC (Anabaena Exposure time: 72 Method: OECD T	
	ctor (Acute aquatic tox-	:	10	
icity) Toxici icity)	ty to fish (Chronic tox-	:	NOEC (Pimephale Exposure time: 32 Method: OECD T	
	ty to daphnia and other ic invertebrates (Chron- city)	:	NOEC (Daphnia r Exposure time: 2′ Method: OECD T	
M-Fac toxicit	ctor (Chronic aquatic y)	:	10	
	stence and degradabili ta available	ty		
	cumulative potential			
Comp	onents:			
Partiti	e nicol: on coefficient: n- ol/water	:	log Pow: 0.373 pH: 7	
Mobil	ity in soil			
Comp	onents:			
	nicol:			
	oution among environ- Il compartments	:	Koc: 52 Method: FDA 3.08	3
	adverse effects ta available			



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Section 13: Disposal considerations

Disposal methods		
Waste from residues	:	Do not dispose of waste into sewer. Dispose of in accordance with local regulations.
Contaminated packaging	:	Empty containers should be taken to an approved waste han- dling site for recycling or disposal. If not otherwise specified: Dispose of as unused product.

Section 14: Transport information

International Regulations

UNRTDG		
UN number	:	UN 3077
UN proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Florfenicol)
Transport hazard class(es)	:	9
Packing group	:	III
Labels	:	9
Environmental hazards	:	yes
IATA-DGR		
UN/ID No.	:	UN 3077
UN proper shipping name	:	Environmentally hazardous substance, solid, n.o.s. (Florfenicol)
Transport hazard class(es)	:	9
Packing group	:	III
Labels	:	Miscellaneous
Packing instruction (cargo aircraft)	:	956
Packing instruction (passen- ger aircraft)	:	956
Environmentally hazardous	:	yes
IMDG-Code		
UN number	:	UN 3077
Proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
Transport bazard alaas(as)		(Florfenicol)
Transport hazard class(es)	÷	9
Packing group	:	
Labels EmS Code	:	9 F-A, S-F
	:	•
Marine pollutant	·	yes

Transport in bulk according to IMO instruments

Not applicable for product as supplied.

Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data



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

Section 15: Regulatory information

Safety, health and environmental regulations specific for the product in question

Workplace Safety and Health Act and Workplace Safety and Health (General Provisions) Regulations: This product is subjected to the SDS, labelling, PEL and other requirements in the Act/Regulations.

Environmental Protection and Management Act and Environmental Protection and Management (Hazard- ous Substances) Regulations	:	Not applicable
Fire Safety (Petroleum and Flammable Materials) Regulations	:	Not applicable

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

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

Section 16: Other information

Revision Date	:	06.04.2024
Further information Sources of key data used to compile the Safety Data Sheet	:	Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agency, http://echa.europa.eu/

Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

:	dd.mm.yyyy
	:

Full text of other abbreviations

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 con-



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centration; 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 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.

SG / EN