

Florfenicol Formulation

Version 3.1	Revision Date: 30.09.2023		S Number: 31959-00009	Date of last issue: 04.04.2023 Date of first issue: 15.12.2020
SECTION	1. IDENTIFICATION			
Prod	uct name	:	Florfenicol Form	ulation
Manu	ufacturer or supplier's	s deta	ils	
Com	pany	:	MSD	
Addr	ess	:		, 6th floor, Ciudad Autonoma rgentina C1013AAP
Telep	phone	:	908-740-4000	
Emei	rgency telephone	:	1-908-423-6000	
E-ma	il address	:	EHSDATASTEV	VARD@msd.com
Reco	ommended use of the	chem	ical and restriction	ons on use
	mmended use rictions on use	:	Veterinary produ Not applicable	ıct

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification Acute toxicity (Oral)	:	Category 5
Skin corrosion/irritation	:	Category 2
Serious eye damage/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



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Hazaı	rd pictograms		!
Signa	l Word	: Danger	
Hazaı	rd Statements	H315 Causes H319 Causes H335 May cau H360Df May d fertility. H372 Causes cord, Blood, ga sure.	harmful if swallowed. skin irritation. serious eye irritation. se respiratory irritation. amage the unborn child. Suspected of damaging damage to organs (Liver, Brain, Testis, Spinal allbladder) through prolonged or repeated expo- ic to aquatic life with long lasting effects.
Preca	utionary Statements	· Prevention: P201 Obtain s	pecial instructions before use.
		and understoo P260 Do not b P264 Wash sk P270 Do not e P271 Use only P273 Avoid rel	reathe mist or vapors. in thoroughly after handling. at, drink or smoke when using this product. outdoors or in a well-ventilated area. lease to the environment. otective gloves/ protective clothing/ eye protec-
		Response:	
		P304 + P340 + and keep com doctor if you fe P305 + P351 + for several mir easy to do. Co P312 Call a P0 P332 + P313 I tion.	 P338 IF IN EYES: Rinse cautiously with water nutes. Remove contact lenses, if present and ntinue rinsing. DISON CENTER/ doctor if you feel unwell. f skin irritation occurs: Get medical advice/ atten-
		tention.	f eye irritation persists: Get medical advice/ at- Fake off contaminated clothing and wash it before pillage.
		Storage:	
		P405 Store loc	жеа ир.
		Disposal: P501 Dispose disposal plant.	of contents/ container to an approved waste



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Other hazards which do not result in classification

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
N-Methyl-2-pyrrolidone	872-50-4	>= 30 -< 50
Florfenicol	73231-34-2	>= 25 -< 30

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.
In case of skin contact	:	Get medical attention. 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	:	and use the recommended personal protective equipment
Notes to physician	:	when the potential for exposure exists (see section 8). Treat symptomatically and supportively.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	:	Water spray
		Alcohol-resistant foam
		Carbon dioxide (CO2)
		Dry chemical
Unsuitable extinguishing	:	None known.



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me	edia			
	ecific hazards during fire hting	:	Exposure to comb	oustion products may be a hazard to health.
	azardous combustion prod-	:	Carbon oxides Nitrogen oxides (N	NOx)
Sp od	ecific extinguishing meth- s	:	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.	
	ecial protective equipment fire-fighters	:		e, wear self-contained breathing apparatus. ective equipment.
SECTIO	ON 6. ACCIDENTAL RELE	AS	E MEASURES	
tiv	ersonal precautions, protec- e equipment and emer- ncy procedures	:		ective equipment. ing advice (see section 7) and personal ent recommendations (see section 8).
En	vironmental precautions	:	Prevent spreading oil barriers). Retain and dispos	akage or spillage if safe to do so. g over a wide area (e.g., by containment or se of contaminated wash water. should be advised if significant spillages

Methods and materials for containment and cleaning up	:	Soak up with inert absorbent material. For large spills, provide diking or other appropriate containment to keep material from spreading. If diked material can be pumped, store recovered material in appropriate container. Clean up remaining materials from spill with suitable absorbent. Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable
		determine which regulations are applicable. Sections 13 and 15 of this SDS provide information regarding certain local or national 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. Do not breathe mist or vapors. Do not swallow. Do not get in eyes. Wash skin thoroughly after handling.



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		practice, based assessment Keep container Already sensitiz to asthma, aller should consult respiratory irrita Do not eat, drin	rdance with good industrial hygiene and safety on the results of the workplace exposure tightly closed. zed individuals, and those susceptible rgies, chronic or recurrent respiratory disease, their physician regarding working with ants or sensitizers. k or smoke when using this product. event spills, waste and minimize release to the
Condi	tions for safe storage	Store locked up Keep tightly clo Keep in a cool,	sed. well-ventilated place.
Mater	ials to avoid	: Do not store wi Strong oxidizing	ibstances 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- pyrrolidone	Urine	End of shift (As soon as possible after exposure ceases)	100 mg/l	ACGIH BEI

Engineering measures

 Use appropriate engineering controls and manufacturing technologies to control airborne concentrations (e.g., dripless 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.



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Pers	onal protective equipr	nent					
Respiratory protection		: If adequate local exhaust ventilation is not available or exposure assessment demonstrates exposures outside the recommended guidelines, use respiratory protection.					
	Iter type I protection	: Combined parti	culates and organic vapor type				
	aterial	: Chemical-resist	tant gloves				
Eye protection		If the work envi mists or aeroso Wear a faceshi	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				
Skin and body protection Hygiene measures		: If exposure to c eye flushing sy working place. When using do Wash contamir The effective of engineering con appropriate deg	r laboratory coat. themical is likely during typical use, provide stems and safety showers close to the not eat, drink or smoke. hated clothing before re-use. beration of a facility should include review of htrols, proper personal protective equipment, gowning and decontamination procedures, ne monitoring, medical surveillance and the rative controls.				

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	liquid
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
Flammability (liquids)	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower	:	No data available



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f	flammal	bility limit			
v	Vapor pressure Relative vapor density		:	No data available	
I			:	No data available)
I	Relative	e density	:	No data available)
I	Density		:	1,050 - 1,250 g/c	m ³
\$	Solubilit Wate	ty(ies) er solubility	:	No data available)
	Partition coefficient: n- octanol/water Autoignition temperature Decomposition temperature		:	Not applicable	
			:	No data available)
I			:	No data available	
Ň	Viscosit Visco	y osity, kinematic	:	No data available	9
ł	Explosiv	ve properties	:	Not explosive	
(Oxidizin	ng properties	:	The substance of	r mixture is not classified as oxidizing.
ſ	Molecul	ar weight	:	No data available	
I	Particle	size	:	Not applicable	

SECTION 10. STABILITY AND REACTIVITY

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

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure	:	Inhalation Skin contact Ingestion Eye contact
Acute toxicity		
May be harmful if swallowed.		
Product:		
A outo oral toxicity		Aquita taxiaity actimate: 4.7

Acute oral toxicity : Acute toxicity estimate: 4.747 mg/kg



ersion 1	Revision Date: 30.09.2023		DS Number: 81959-00009	Date of last issue: 04.04.2023 Date of first issue: 15.12.2020
			Method: Calculati	on method
<u>Com</u>	ponents:			
N-Me	ethyl-2-pyrrolidone:			
Acute	e oral toxicity	:	LD50 (Rat): 4.150) mg/kg
Acute	e inhalation toxicity	:	LC50 (Rat): > 5,1 Exposure time: 4 Test atmosphere: Method: OECD Te	h dust/mist
Acute	e dermal toxicity	:	LD50 (Rat): > 5.0	00 mg/kg
Florf	enicol:			
Acute	e oral toxicity	:	LD50 (Rat): > 2.0	00 mg/kg
			LD50 (Mouse): >	2.000 mg/kg
			LD50 (Dog): > 1.2	280 mg/kg
Acute	e 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			
<u>Com</u>	ponents:			
N-Me	ethyl-2-pyrrolidone:			
Resu	llt	:	Skin irritation	
Florf	enicol:			
Spec Resu		:	Rabbit No skin irritation	
	ous eye damage/eye irri	tati	on	
<u>Com</u>	ponents:			
	ethyl-2-pyrrolidone:			
Spec Resu		:	Rabbit Irritation to eyes,	reversing within 21 days



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Florf	enicol:		
Spec Resu		: Rabbit	22
Resu	it.	: Mild eye irritation	ווכ
Resp	iratory or skin sens	itization	
-	sensitization	ailable information.	
-	iratory sensitization lassified based on av		
Com	ponents:		
N-Me	thyl-2-pyrrolidone:		
Test			de assay (LLNA)
Route Spec	es of exposure	: Skin contact : Mouse	
Meth		: OECD Test Gu	ideline 429
Resu		: negative	
Rema	arks	: Based on data	from similar materials
Florf	enicol:		
Test		: Maximization T	est
Spec Resu		: Guinea pig : negative	
Gorm	n cell mutagenicity		
	lassified based on av	ailable information.	
Com	ponents:		
N-Me	thyl-2-pyrrolidone:		
Genc	otoxicity in vitro		eterial reverse mutation assay (AMES) Dest Guideline 471 e
			itro mammalian cell gene mutation test Test Guideline 476 e
			A damage and repair, unscheduled DNA syn- nalian cells (in vitro) e
Genc	otoxicity in vivo	cytogenetic ass Species: Mous Application Ro	e ute: Ingestion) Test Guideline 474



rsion I	Revision Date: 30.09.2023	SDS Number:Date of last issue: 04.04.20237681959-00009Date of first issue: 15.12.2020
		Test Type: Mutagenicity (in vivo mammalian bone-marrow cytogenetic test, chromosomal analysis) Species: Hamster Application Route: Ingestion Method: OECD Test Guideline 475 Result: negative
Florfe	enicol:	
Genotoxicity in vitro		: Test Type: Bacterial reverse mutation assay (AMES) Result: negative
		Test Type: DNA damage and repair, unscheduled DNA syn thesis in mammalian cells (in vitro) Test system: rat hepatocytes Result: negative
		Test Type: In vitro mammalian cell gene mutation test Test system: mouse lymphoma cells Result: negative
		Test Type: Chromosome aberration test in vitro Test system: Chinese hamster ovary cells Result: positive
Geno	toxicity in vivo	: Test Type: Micronucleus test Species: Mouse Cell type: Bone marrow Application Route: Oral Result: negative
Carci	nogenicity	
	lassified based on av	ailable information.
Com	ponents:	
N-Me	thyl-2-pyrrolidone:	
Speci		: Rat
Applio	cation Route	: Ingestion
	sure time	: 2 Years
Resu	It	: negative
Speci	es	: Rat
Applic	cation Route	: inhalation (vapor)
Expos Resul	sure time It	2 Years : negative
Florfe	enicol:	
Florfe Speci		: Rat
Speci Applic	es cation Route	: oral (gavage)
Speci Applic Expos	es cation Route sure time	: oral (gavage) : 2 Years
Speci Applic Expos Resul	es cation Route sure time	: oral (gavage)



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: Mouse : oral (gavage) : 2 Years : negative : Testes, Blood	
. Suspected of damaging	ı fertility.
Species: Rat Application Route: Ir	0
Species: Rat Application Route: Ir	ngestion
Species: Rat	early embryonic development
Species: Rabbit	
	dverse effects on development, based on
Species: Rat Application Route: C Fertility: LOAEL: 12	
Species: Rat General Toxicity Ma Embryo-fetal toxicity Result: No teratoger Remarks: The effect es.	ternal: NOAEL: 4 mg/kg body weight /.: LOAEL: 40 mg/kg body weight hic effects., Fetotoxicity. ts were seen only at maternally toxic dos-
	7681959-00009 D : Mouse : oral (gavage) : 2 Years : negative : Testes, Blood d. Suspected of damaging : Test Type: Two-gen Species: Rat Application Route: In Method: OECD Test Result: negative : Test Type: Embryo-f Species: Rat Application Route: In Method: OECD Test Result: positive : Test Type: Fertility/e Species: Rat Application Route: In Method: OECD Test Result: positive : Test Type: Fertility/e Species: Rat Application Route: In Result: positive : Test Type: Embryo-f Species: Rat Application Route: In Result: positive : Clear evidence of ac animal experiments. : Test Type: Two-gen Species: Rat Application Route: If Result: positive : Clear evidence of ac animal experiments. : Test Type: Two-gen Species: Rat Application Route: C Fertility: LOAEL: 12 Result: decreased p : Test Type: Embryo-f Species: Rat General Toxicity Ma Embryo-fetal toxicity Result: No teratoger Remarks: The effect es. : Test Type: Embryo-f Species: Rat General Toxicity Ma



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					Aternal: NOAEL: 120 mg/kg body weight ity.: LOAEL: 40 mg/kg body weight
	Reprod sessme	uctive toxicity - As- ent	:	fertility, based on	f adverse effects on sexual function and animal experiments., Some evidence of a development, based on animal
		single exposure use respiratory irritatio	n.		
	Compo	onents:			
	N-Meth Assess	y l-2-pyrrolidone: ment	:	May cause respira	atory irritation.
	Causes	repeated exposure damage to organs (Li or repeated exposure.	ver,	Brain, Testis, Spin	al cord, Blood, gallbladder) through pro-
	Compo	onents:			
	Florfen Target Assess	Organs	:		s, Spinal cord, Blood, gallbladder o organs through prolonged or repeated
	Repeat	ed dose toxicity			
	Compo	onents:			
	N-Meth	yl-2-pyrrolidone:			
	Species NOAEL LOAEL	s - tion Route ire time		Rat, male 169 mg/kg 433 mg/kg Ingestion 90 Days OECD Test Guide	line 408
	Species NOAEL LOAEL Applica Exposu Method	- tion Route rre time	:	Rat 0,5 mg/l 1 mg/l inhalation (dust/m 96 Days OECD Test Guide	
	Species NOAEL LOAEL Applica Exposu	tion Route		Rabbit 826 mg/kg 1.653 mg/kg Skin contact 20 Days	



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	Florfer	nicol:			
	•		::	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	
		-	:	Dog 3 mg/kg 12 mg/kg 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:			
	N-Meth Skin co	nyl-2-pyrrolidone : ontact	:	Symptoms: Skin i	rritation
SEC	CTION 1	2. ECOLOGICAL INFO	ORN	MATION	
	Ecotox	licity			
		onents:			
		yl-2-pyrrolidone: / to fish	:	LC50 (Oncorhync Exposure time: 96	hus mykiss (rainbow trout)): > 500 mg/l ວິ 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



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				EC10 (Desmodes Exposure time: 72	mus subspicatus (green algae)): 92,6 mg/l ? h
a		to daphnia and other invertebrates (Chron- ty)	:	NOEC (Daphnia r Exposure time: 21 Method: OECD Te	
Т	oxicity	to microorganisms	:	EC50: > 600 mg/l Exposure time: 30 Method: ISO 8192	
F	lorfen	icol:			
Т	oxicity	to fish	:	LC50 (Lepomis m Exposure time: 96 Method: FDA 4.11	
				LC50 (Oncorhync Exposure time: 96 Method: FDA 4.11	
		to daphnia and other invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: OECD Te	
	oxicity ants	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 git Exposure time: 7 Method: OECD Te	
				EC50 (Navicula p Exposure time: 72 Method: OECD Te	



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			Exposure time: 7	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-Fac	tor (Acute aquatic tox-	:	10		
icity) Toxicity to fish (Chronic tox- icity)		:	NOEC (Pimephales promelas (fathead minnow)): 5,5 mg/l Exposure time: 32 d Method: OECD Test Guideline 210		
	ty to daphnia and other c invertebrates (Chron- city)	:	Exposure time: 2	magna (Water flea)): 1,5 mg/l 21 d Fest Guideline 211	
M-Fac toxicity	tor (Chronic aquatic /)	:	10		
-	stence and degradabili	ity			
<u>Comp</u>	onents:				
N-Met	hyl-2-pyrrolidone:				
Biode	gradability	:	Result: Readily b Biodegradation: Exposure time: 2 Method: OECD 1	73 %	
Bioac	cumulative potential				
Comp	onents:				
N-Met	hyl-2-pyrrolidone:				
	on coefficient: n- ol/water	:	log Pow: -0,46 Method: OECD 1	Test Guideline 107	
Florfe	nicol:				
	on coefficient: n- ol/water	:	log Pow: 0,373 pH: 7		
Mobili	ty in soil				
<u>Comp</u>	onents:				
Florfe	nicol:				



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Other adverse effects

No data available

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
		handling site for recycling or disposal.
		If not otherwise specified: Dispose of as unused product.

SECTION 14. TRANSPORT INFORMATION

International Regulations

UNRTDG UN number Proper shipping name	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQI N.O.S. (Florfenicol)	UID,
Class Packing group Labels Environmentally hazardous	9 III 9 yes	
IATA-DGR UN/ID No. Proper shipping name Class Packing group	UN 3082 Environmentally hazardous substance, liquid, n.o.s. (Florfenicol) 9 III	
Labels Packing instruction (cargo aircraft) Packing instruction (passen- ger aircraft) Environmentally hazardous	Miscellaneous 964 964 yes	
IMDG-Code UN number Proper shipping name	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQ N.O.S. (Florfenicol)	UID,
Class Packing group Labels EmS Code Marine pollutant	9 III 9 F-A, S-F yes	

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.



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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.

SECTION 15. REGULATORY INFORMATION

Safety, health and environmental regulations/leg mixture	jislation specific for the substance or
Argentina. Carcinogenic Substances and Agents	: Not applicable

Control of precursors and essential chemicals for the : Not applicable preparation of drugs.

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

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

SECTION 16. OTHER INFORMATION

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Further information

Registry.

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

ACGIH BEI	: ACGIH - Biological Exposure Indices (BEI)
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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 Or-



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ganisation 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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