



Vers 9.0	ion	Revision Date: 2023/11/30		S Number: 274-00025	Date of last issue: 2023/09/29 Date of first issue: 2014/10/29				
1. PI	1. PRODUCT AND COMPANY IDENTIFICATION								
	Produc	t name	:	Florfenicol Liquid	Formulation				
	Other n	neans of identification	:	NUFLOR LA INJ	ECTABLE SOLUTION (52201)				
	Manuf a Compa	acturer or supplier's d ny	letai :	ls MSD					
	Addres	S	:	126 E. Lincoln Av Rahway, New Je	venue rsey U.S.A. 07065				
	Teleph	one	:	908-740-4000					
	Emerge	ency telephone number	r:	1-908-423-6000					
	E-mail	address	:	EHSDATASTEW	/ARD@msd.com				
	Recom	mended use of the ch mended use tions on use	nem : :	ical and restrictic Veterinary produc Not applicable					

2. HAZARDS IDENTIFICATION

GHS Classification		
Skin corrosion/irritation	:	Category 2
Serious eye damage/eye irri- tation	:	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, gallblad- der)
Short-term (acute) aquatic hazard	:	Category 1
Long-term (chronic) aquatic hazard	:	Category 1

GHS label elements

SAFETY DATA SHEET



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Hazaı	rd pictograms		
Signa	l word	: Danger	\checkmark \checkmark
Hazaı	rd statements	H335 May cau H360Df May o fertility. H372 Causes cord, Blood, g sure.	skin irritation. serious eye irritation. use respiratory irritation. damage the unborn child. Suspected of dama damage to organs (Liver, Brain, Testis, Spir allbladder) through prolonged or repeated ex kic to aquatic life with long lasting effects.
Preca	utionary statements	P202 Do not I and understoo P260 Do not I P264 Wash sl P270 Do not e P271 Use onl P273 Avoid re	preathe mist or vapours. kin thoroughly after handling. eat, drink or smoke when using this product. y outdoors or in a well-ventilated area. elease to the environment. otective gloves/ protective clothing/ eye protective gloves/
		P304 + P340 and keep com doctor if you f P305 + P351 for several mi easy to do. Co P308 + P313 attention. P332 + P313 tion. P337 + P313 tention.	 + P338 IF IN EYES: Rinse cautiously with wantes. Remove contact lenses, if present and portinue rinsing. IF exposed or concerned: Get medical advice off skin irritation occurs: Get medical advice/a If eye irritation persists: Get medical advice/ Take off contaminated clothing and wash it be
		Storage: P405 Store lo Disposal: P501 Dispose	cked up. e of contents/ container to an approved waste



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II

Other hazards which do not result in classification None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
Florfenicol	73231-34-2	>= 30 -< 60
N-Methyl-2-pyrrolidone	872-50-4	>= 20 -< 30

4. FIRST AID MEASURES

FIREFIGHTING MEASURES		
Notes to physician	:	Treat symptomatically and supportively.
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).
		May damage the unborn child. Suspected of damaging fertili- ty. Causes damage to organs through prolonged or repeated
and effects, both acute and delayed		Causes serious eye irritation. May cause respiratory irritation.
Most important symptoms	:	Get medical attention. Rinse mouth thoroughly with water. Causes skin irritation.
If swallowed	:	for at least 15 minutes. If easy to do, remove contact lens, if worn. Get medical attention. If swallowed, DO NOT induce vomiting.
In case of eye contact	:	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 contact, immediately flush eyes with plenty of water
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
If inhaled	:	If inhaled, remove to fresh air.
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.

5. FIREFIGHTING MEASURES

Suitable extinguishing media :

Water spray Alcohol-resistant foam



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Unsuitable extinguishing media Specific hazards during fire- fighting Hazardous combustion prod- ucts Specific extinguishing meth- ods		: : :	Nitrogen oxides (NOx) Use extinguishing measures that are appropriate to local ci cumstances and the surrounding environment. Use water spray to cool unopened containers. Remove undamaged containers from fire area if it is safe to so. Evacuate area.				
6. AC	CIDENT	AL RELEASE MEAS	SUR	ES			
tiv		precautions, protec- ment and emer- cedures	:		ective equipment. ing advice (see section 7) and personal pro- recommendations (see section 8).		
E	nvironme	ental precautions	:	Prevent spreading barriers). Retain and dispos	akage or spillage if safe to do so. g over a wide area (e.g. by containment or oil se of contaminated wash water. should be advised if significant spillages		
		and materials for ent and cleaning up	:	For large spills, pr ment to keep mate be pumped, store Clean up remainin bent. Local or national r posal of this mate employed in the c mine which regula Sections 13 and 1	absorbent material. ovide dyking or other appropriate contain- erial from spreading. If dyked material can recovered material in appropriate container. In materials from spill with suitable absor- regulations may apply to releases and dis- rial, as well as those materials and items leanup of releases. You will need to deter- ations are applicable. 5 of this SDS provide information regarding tional requirements.		
7. HAI	NDLING	AND STORAGE					
-	-						



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		Handle in accord practice, based of sessment Keep container to Already sensitise to asthma, allerg should consult th tory irritants or s Do not eat, drink Take care to pre environment.	es. ughly after handling. dance with good industrial hygiene and safety on the results of the workplace exposure as- ightly closed. ed individuals, and those susceptible gies, chronic or recurrent respiratory disease, heir physician regarding working with respira- ensitisers. or smoke when using this product. went spills, waste and minimize release to the
Condi	tions for safe storage	Store locked up. Keep tightly clos Keep in a cool, v	ed. vell-ventilated place.
Materi	als to avoid		nce with the particular national regulations. the following product types: agents

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components 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.



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			Laboratory oper	ations do not require special containment.
Perse	onal protective equip	ment		
	iratory protection	:	sure assessmer ommended guid	Il exhaust ventilation is not available or expo- nt demonstrates exposures outside the rec- delines, use respiratory protection. culates and organic vapour type
	l protection	•	Combined partic	sulates and organic vapour type
	aterial	:	Chemical-resist	ant gloves
Eye ç	protection	:	If the work envir mists or aerosol Wear a faceshie	sses with side shields or goggles. conment or activity involves dusty conditions, ls, wear the appropriate goggles. eld or other full face protection if there is a ect contact to the face with dusts, mists, or
	and body protection ene measures	:	Work uniform of If exposure to cl eye flushing sys ing place. When using do Wash contamine The effective op engineering con appropriate deg	r laboratory coat. hemical is likely during typical use, provide stems and safety showers close to the work- not eat, drink or smoke. ated clothing before re-use. beration of a facility should include review of trols, proper personal protective equipment, owning and decontamination procedures, he monitoring, medical surveillance and the rative controls.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	Aqueous solution
Colour	:	gold
Odour	:	No data available
Odour 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

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	per explosion limit / Upper nmability limit	:	No data available	9
	wer explosion limit / Lower nmability limit	:	No data available	
Va	pour pressure	:	No data available	
Re	lative vapour density	:	No data available	9
Re	lative density	:	No data available)
De	nsity	:	No data available)
	lubility(ies) Water solubility	:	No data available	
	rtition coefficient: n- anol/water	:	Not applicable	
	to-ignition temperature	:	No data available	9
De	composition temperature	:	No data available)
Vis	cosity Viscosity, kinematic	:	No data available	9
Ex	plosive properties	:	Not explosive	
Ox	idizing properties	:	The substance o	r mixture is not classified as oxidizing.
Pa	rticle size	:	Not applicable	

10. STABILITY AND REACTIVITY

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

11. TOXICOLOGICAL INFORMATION

Information on likely routes of	:	
exposure		Skin contact
		Ingestion
		Eye contact



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Acute toxicity

Not classified based on available information.

Components:

Florfenicol:		
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): > 0.28 mg/l Exposure time: 4 h
Acute dermal toxicity	:	Remarks: No data available
Acute toxicity (other routes of administration)	:	LD50 (Rat): 1,913 - 2,253 mg/kg Application Route: Intraperitoneal
		LD50 (Mouse): 100 mg/kg Application Route: Intravenous
N-Methyl-2-pyrrolidone:		
Acute oral toxicity	:	LD50 (Rat): 4,150 mg/kg
Acute inhalation toxicity	:	LC50 (Rat): > 5.1 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403
Acute dermal toxicity	:	LD50 (Rat): > 5,000 mg/kg
Skin corrosion/irritation		
Causes skin irritation.		
Components:		
Flanfaniaal		

Florfenicol:Species: RabbitResult: No skin irritation

N-Methyl-2-pyrrolidone:

Result

: Skin irritation

Serious eye damage/eye irritation

Causes serious eye irritation.



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<u>Comp</u>	onents:		
Florfe	enicol:		
Specie Result		: Rabbit : Mild eye irritatio	n
N-Met	hyl-2-pyrrolidone:		
Specie Result		: Rabbit : Irritation to eyes	s, reversing within 21 days
Respi	ratory or skin sensi	tisation	
	sensitisation assified based on ava	ailable information.	
Respi	ratory sensitisation assified based on ava		
	onents:	allable information.	
Florfe	enicol:		
Test T		: Maximisation Te	est
Specie	es	: Guinea pig	
Result	t	: negative	
N-Met	hyl-2-pyrrolidone:		
Test T			de assay (LLNA)
Expos	sure routes	: Skin contact : Mouse	
Metho		: OECD Test Gui	deline 429
Result		: negative	
Rema	rks	: Based on data f	irom similar materials
	cell mutagenicity		
Not cla	assified based on ava	ailable information.	
<u>Comp</u>	onents:		
Florfe	enicol:		
Genot	oxicity in vitro	: Test Type: Bact Result: negative	erial reverse mutation assay (AMES)
			tro mammalian cell gene mutation test ouse lymphoma cells



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			nromosome aberration test in vitro Chinese hamster ovary cells /e
Geno	toxicity in vivo	: Test Type: Mi Species: Mou Cell type: Bon Application Ro Result: negati	ie marrow oute: Oral
N-Me	thyl-2-pyrrolidone:		
	toxicity in vitro		icterial reverse mutation assay (AMES) D Test Guideline 471 ve
			vitro mammalian cell gene mutation test D Test Guideline 476 ve
			NA damage and repair, unscheduled DNA syn malian cells (in vitro) ve
Geno	toxicity in vivo	cytogenetic as Species: Mou Application Ro	se oute: Ingestion D Test Guideline 474
		cytogenetic te Species: Ham Application Ro	oute: Ingestion D Test Guideline 475
	inogenicity		
	lassified based on av	ailable information.	
<u>Com</u>	ponents:		
Spec Appli Expo Resu	cation Route sure time	: Rat : oral (gavage) : 2 Years : negative : Liver, Testes	



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Resu	sure time It et Organs	: 2 Years : negative : Testes, Blood	1
N-Me	thyl-2-pyrrolidone:		
Spec Appli	ies cation Route sure time	: Rat : Ingestion : 2 Years : negative	
	cation Route sure time	: Rat : inhalation (va : 2 Years : negative	pour)
May	oductive toxicity damage the unborn chi	ld. Suspected of dar	naging fertility.
	ponents:		
	enicol: ts on fertility	Species: Rat Application R Fertility: LOA	vo-generation reproduction toxicity study oute: Oral EL: 12 mg/kg body weight ased pup survival, reduced lactation
Effec ment	ts on foetal develop-	Species: Rat General Toxic Embryo-foeta Result: No ter	nbryo-foetal development city Maternal: NOAEL: 4 mg/kg body weight I toxicity: LOAEL: 40 mg/kg body weight ratogenic effects, Fetotoxicity e effects were seen only at maternally toxic dos-
		Species: Mou Application R General Toxic	oute: oral (gavage) city Maternal: NOAEL: 120 mg/kg body weight I toxicity: LOAEL: 40 mg/kg body weight
Repro sessr	oductive toxicity - As- nent	fertility, based	ce of adverse effects on sexual function and d on animal experiments., Some evidence of ts on development, based on animal experi-
N-Me	thyl-2-pyrrolidone:		
	ts on fertility	Species: Rat	vo-generation reproduction toxicity study oute: Ingestion



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II			Method: OECD	Test Guideline 416
			Result: negative	
Effect ment	s on foetal develop-	:	Species: Rat Application Rou	ryo-foetal development te: Ingestion Test Guideline 414
			Species: Rat	lity/early embryonic development te: inhalation (vapour)
			Test Type: Emb Species: Rabbit Application Rou Result: positive	
Repro sessn	oductive toxicity - As- nent	:	Clear evidence of animal experiment	of adverse effects on development, based on ents.
	- single exposure cause respiratory irritat	ion.		
<u>Com</u>	oonents:			
N-Me Asses	thyl-2-pyrrolidone:	:	May cause resp	iratory irritation.
Cause longe	d or repeated exposure	Liver,	Brain, Testis, Sp	inal cord, Blood, gallbladder) through pro-
	oonents:			
Targe	enicol: et Organs ssment	:		stis, Spinal cord, Blood, gallbladder e to organs through prolonged or repeated
Repe	ated dose toxicity			
<u>Com</u>	oonents:			
	enicol:		Der	
	EL sure time	:	Dog 3 mg/kg 13 Weeks	
Targe	et Organs	:	Liver, Testis, Bra	ain, Spinal cord



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	L ure time	: Mouse : 200 mg/kg : 13 Weeks	
Specie NOAE Expos		: Liver, Testis : Rat : 30 mg/kg : 13 Weeks : Liver, Testis	
	L	: Dog : 3 mg/kg : 12 mg/kg : 52 Weeks : Liver, gallbladd	er
	L	: Rat : 1 mg/kg : 3 mg/kg : 52 Weeks : Testis	
Specie NOAE LOAEI Applica	L L ation Route ure time	: Rat, male : 169 mg/kg : 433 mg/kg : Ingestion : 90 Days : OECD Test Gu	ideline 408
	L L ation Route ure time	: Rat : 0.5 mg/l : 1 mg/l : inhalation (dust : 96 Days : OECD Test Gu	
	L	: Rabbit : 826 mg/kg : 1,653 mg/kg : Skin contact : 20 Days	
Not cla	ation toxicity assified based on avai ience with human ex		
-	onents:		
N-Met Skin co	hyl-2-pyrrolidone: ontact	: Symptoms: Ski	n irritation



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12. ECOLOGICAL INFORMATION

Ecotoxicity		
Components:		
Florfenicol:		
Toxicity to fish	:	LC50 (Lepomis macrochirus (Bluegill sunfish)): > 830 mg/l Exposure time: 96 h Method: FDA 4.11
		LC50 (Oncorhynchus mykiss (rainbow trout)): > 780 mg/l Exposure time: 96 h Method: FDA 4.11
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): > 330 mg/l Exposure time: 48 h Method: OECD Test Guideline 202
Toxicity to algae/aquatic plants	:	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
		EC50 (Navicula pelliculosa (Freshwater diatom)): 61 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
		NOEC (Navicula pelliculosa (Freshwater diatom)): 19 mg/l Exposure time: 72 h Method: OECD Test Guideline 201





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icity)	tor (Acute aquatic tox-	:	Exposure time: Method: OECD NOEC (Anabaer Exposure time: Method: OECD 10	Test Guideline 201 na flos-aquae): 0.051 mg/l
icity)		•	Exposure time: 3	
	ty to daphnia and other c invertebrates (Chron- city)	:	Exposure time: 2	magna (Water flea)): 1.5 mg/l 21 d Test Guideline 211
M-Fac toxicity	tor (Chronic aquatic /)	:	10	
N-Met	hyl-2-pyrrolidone:			
Toxicit	ty to fish	:	LC50 (Oncorhyr Exposure time: 9	ichus mykiss (rainbow trout)): > 500 mg/l 96 h
	ty to daphnia and other c invertebrates	:	EC50 (Daphnia Exposure time: 2 Method: DIN 384	
Toxicit plants	ty to algae/aquatic	:	ErC50 (Desmod Exposure time: 7	esmus subspicatus (green algae)): 600.5 m 72 h
			EC10 (Desmode Exposure time: 7	esmus subspicatus (green algae)): 92.6 mg/ 72 h
	ty to daphnia and other c invertebrates (Chron- city)	:	Exposure time: 2	magna (Water flea)): 12.5 mg/l 21 d Test Guideline 211
Toxicit	y to microorganisms	:	EC50: > 600 mg Exposure time: 3 Method: ISO 819	30 min
Persis	stence and degradabili	ty		
<u>Comp</u>	onents:			
N-Met	hyl-2-pyrrolidone:			
Biode	gradability	:	Result: Readily I Biodegradation: Exposure time: 2	73 %



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Bioac	cumulative potential		Method: OECD T	est Guideline 301C
	oonents:			
	enicol:			
Partiti	on coefficient: n- ol/water	:	log Pow: 0.373 pH: 7	
Partiti	thyl-2-pyrrolidone: on coefficient: n- ol/water	:	log Pow: -0.46 Method: OECD T	est Guideline 107
Mobil	ity in soil			
Comp	oonents:			
Distrik	enicol: oution among environ- al compartments	:	Koc: 52 Method: FDA 3.0	8
	adverse effects Ita available			
13. DISPO	SAL CONSIDERATION	NS		
Dispo	osal methods			
Waste	e from residues	:	Do not dispose o	
Conta	minated packaging	:	 Dispose of in accordance with local regulations. Empty containers should be taken to an approved was dling site for recycling or disposal. If not otherwise specified: Dispose of as unused production 	
14. TRAN	SPORT INFORMATION	1		
Interr	national Regulations			
UNRI UN nı Prope	r DG umber er shipping name	:	N.O.S. (Florfenicol)	ALLY HAZARDOUS SUBSTANCE, LIQUID,
Label	ng group	:	9 III 9 yes	
IATA - UN/IC		:	UN 3082	



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Proper shipping name		:	Environmentally h (Florfenicol)	azardous substance, liquid, n.o.s.
Class		:	9	
	ng group	:	III	
Label	-	:	Miscellaneous	
	Packing instruction (cargo aircraft)		964	
	Packing instruction (passen- ger aircraft) Environmentally hazardous		964	
Ĕnvir			yes	
IMDO	-Code			
	umber	:	UN 3082	
Prope	Proper shipping name		ENVIRONMENTA	LLY HAZARDOUS SUBSTANCE, LIQUID,
			N.O.S.	
			(Florfenicol)	
Class		:	9	
Packing group Labels		:	III	
		:	9	
	Code	:	F-A, S-F	
Marine pollutant		:	yes	

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

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

15. REGULATORY INFORMATION

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

Minister of Industry Regulation No. 23/M-IND/PER/4/2013 concerning the Revision of Minister of Industry Regulation No. 87/M-IND/PER/9/2009 concerning Globally Harmonized System of Classification and Labelling of Chemicals.

Regulation of the Minister of Health No. 472 of 1996 on the Safeguarding of Substances Hazardous to Health

Hazardous substances that must be registered

: Not applicable

Government Regulation No. 74 of 2001 on the Management of Hazardous and Toxic Substances

Hazardous substances approved for use	:	Not applicable
Prohibited substances	:	Not applicable
Restricted substances	:	Not applicable



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Regulation of the Ministry of Trade No. 7 of 2022 on Distribution and Control of Hazardous Materials

Type of hazardous materials subject to distribution and : Not applicable control, Annex I

Type of hazardous materials subject to distribution and : Not applicable control, Annex II

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

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

16. OTHER INFORMATION

Revision Date	:	2023/11/30
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 Agen- cy, 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.

Date format : yyyy/mm/dd

Full text of other abbreviations

ACGIH BEI : ACGIH - Biological Exposure Indices (BEI)

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

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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.

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