



Versi 4.1	ion	Revision Date: 2023/09/30		S Number: 7405-00019	Date of last issue: 2023/04/04 Date of first issue: 2016/01/06
1. PF	RODUC	T AND COMPANY ID	ENT	IFICATION	
	Produc	t name	:	Florfenicol Prem	ix Formulation
	Manufa	acturer or supplier's c	deta	ils	
	Compa	ny	:	MSD	
	Addres	S	:	126 E. Lincoln A Rahway, New Je	venue ersey U.S.A. 07065
	Teleph	one	:	908-740-4000	
	Emerge	ency telephone numbe	r :	1-908-423-6000	
	E-mail	address	:	EHSDATASTEV	/ARD@msd.com
	Recom	mended use of the cl	hem	ical and restricti	ons on use
		mended use tions on use	:	Veterinary produ Not applicable	ict
2. HA	ZARD	S IDENTIFICATION			
	GHS C	lassification			
	Reproc	luctive toxicity	:	Category 2	
		c target organ toxicity - ed exposure	:	Category 2 (Live der)	r, Brain, Testis, Spinal cord, Blood, gallblad-
	Short-t hazard	erm (acute) aquatic	:	Category 1	

GHS label elements

Long-term (chronic) aquatic : Category 1

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Signal word

hazard

Hazard pictograms



Hazard statements H361fd Suspected of damaging fertility. Suspected of damag-÷ ing the unborn child. H373 May cause damage to organs (Liver, Brain, Testis, Spinal cord, Blood, gallbladder) through prolonged or repeated exposure.





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		H410 Very to	kic to aquatic life with long lasting effects.				
Preca	autionary statements	P202 Do not I and understoo P260 Do not I P273 Avoid re P280 Wear pr	 P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P260 Do not breathe dust. P273 Avoid release to the environment. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. Response: 				
		-	IF exposed or concerned: Get medical advice/				
		Storage: P405 Store lo	cked up.				
			Disposal: P501 Dispose of contents/ container to an approved waste disposal plant.				
Dust Conta	r hazards which do r contact with the eyes act with dust can caus form explosive dust-air	can lead to mechanica e mechanical irritation	al irritation.				

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
Calcium carbonate	471-34-1	>= 60 -<= 100
Florfenicol	73231-34-2	>= 3 -< 10

4. 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. Get medical attention. Wash clothing before reuse.



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lf s	case of eye contact wallowed	:	If in eyes, rinse w Get medical atten If swallowed, DO Get medical atten Rinse mouth thore	tion if irritation develops and persists. NOT induce vomiting. tion. oughly with water.
an	est important symptoms d effects, both acute and ayed	:	unborn child. May cause damagexposure. Contact with dust the skin.	naging fertility. Suspected of damaging the ge to organs through prolonged or repeated can cause mechanical irritation or drying of the eyes can lead to mechanical irritation.
	otection of first-aiders tes to physician	:	and use the recor when the potentia	ers should pay attention to self-protection, nmended personal protective equipment Il for exposure exists (see section 8). cally and supportively.
	FIGHTING MEASURES	•		
Su	itable extinguishing media	:	Water spray Alcohol-resistant Carbon dioxide (C Dry chemical	
	suitable extinguishing dia	:	None known.	
	ecific hazards during fire- nting	:	concentrations, and potential dust exp	dust; fine dust dispersed in air in sufficient nd in the presence of an ignition source is a losion hazard. pustion products may be a hazard to health.
Ha uct	zardous combustion prod- s	:	Carbon oxides Metal oxides	
Sp od:	ecific extinguishing meth- S	:	cumstances and t Use water spray t	measures that are appropriate to local cir- he surrounding environment. o cool unopened containers. ged containers from fire area if it is safe to do
	ecial protective equipment firefighters	:	In the event of fire	e, wear self-contained breathing apparatus. tective equipment.
6. ACC	IDENTAL RELEASE MEAS	SUF	RES	
tive	rsonal precautions, protec- e equipment and emer- ncy procedures	:	Follow safe handl	tective equipment. ing advice (see section 7) and personal pro- recommendations (see section 8).

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
		Local authorities should be advised it significant spillages



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	hods and materials for tainment and cleaning up	:	tainer for disposa Avoid dispersal o with compressed Dust deposits sho es, as these may leased into the at Local or national posal of this mate employed in the o mine which regula Sections 13 and	uum up spillage and collect in suitable con- l. f dust in the air (i.e., clearing dust surfaces
7. HAND	LING AND STORAGE			
Loc Adv	Technical measures Local/Total ventilation Advice on safe handling Conditions for safe storage		causing an explose Provide adequate and bonding, or in Use only with ade Do not breathe du Do not breathe du Do not swallow. Avoid contact with Avoid prolonged of Wash skin thorout Handle in accorda practice, based of sessment Minimize dust get Keep container of Keep away from I Take precautiona Do not eat, drink Take care to prevent.	a precautions, such as electrical grounding hert atmospheres. equate ventilation. ust. In eyes. or repeated contact with skin. ghly after handling. ance with good industrial hygiene and safety in the results of the workplace exposure as- heration and accumulation. osed when not in use. heat and sources of ignition. ry measures against static discharges. or smoke when using this product. ent spills, waste and minimize release to the
Con	ditions for safe storage	:	Store locked up. Store in accordar	abelled containers.
Mat	erials to avoid	:		the following product types:

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

(Form of ters / Permissible exposure) concentration

SAFETY DATA SHEET



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Calciu	um carbonate	471-34-1	NAB (Inhala- ble)	10 mg/m3 (Calcium car-	ID OEL
Florfe	enicol	73231-34-2	TWA	bonate) 100 μg/m3 (OEB 2)	Internal
Engir	neering measures	compound. All engineerir design and o	ng controls shoul	rols to minimize exp d be implemented by dance with GMP prin d the environment.	/ facility
Perso	onal protective equip	ment			
·	iratory protection Iter type	sure assessn	nent demonstrate uidelines, use re	tilation is not availables exposures outside spiratory protection.	•
	protection aterial	: Chemical-res	istant gloves		
Eye protection :		If the work er mists or aero Wear a faces	ivironment or act sols, wear the ap hield or other ful	e shields or goggles. ivity involves dusty copropriate goggles. I face protection if the he face with dusts, n	ere is a
	and body protection ene measures	: If exposure to eye flushing s ing place. When using o Wash contan The effective engineering o appropriate o industrial hyg	systems and safe do not eat, drink inated clothing b operation of a fa controls, proper p legowning and do	ly during typical use, ety showers close to or smoke. before re-use. icility should include bersonal protective et econtamination proce medical surveillance	the work- review of quipment, edures,

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	powder
Colour	:	white
Odour	:	No data available
Odour Threshold	:	No data available
рН	:	No data available
Melting point/freezing point	:	No data available

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Initial range	boiling point and boiling	:	No data available	9
Flash	n point	:	Not applicable	
Evap	oration rate	:	Not applicable	
Flam	mability (solid, gas)	:	May form explosiding or other me	ive dust-air mixture during processing, han ans.
Flam	mability (liquids)	:	No data available	9
	er explosion limit / Upper nability limit	:	No data available	9
	er explosion limit / Lower nability limit	:	No data available	9
Vapo	ur pressure	:	No data available	9
Relat	ive vapour density	:	Not applicable	
Relat	ive density	:	No data available	9
Dens	ity	:	No data available	9
	pility(ies) /ater solubility	:	No data available	9
	ion coefficient: n- nol/water	:	Not applicable	
	ignition temperature	:	No data available	9
Deco	mposition temperature	:	No data available	9
Visco Vi	osity scosity, kinematic	:	Not applicable	
Explo	osive properties	:	Not explosive	
Oxidi	zing properties	:	The substance o	r mixture is not classified as oxidizing.
Partic	cle size	:	No data available	9

10. STABILITY AND REACTIVITY

Reactivity Chemical stability Possibility of hazardous reac- tions	:	
tions		dling or other means.



/ersion I.1	Revision Date: 2023/09/30		S Number: 7405-00019	Date of last issue: 2023/04/04 Date of first issue: 2016/01/06	
			Can react with	strong oxidizing agents.	
Cond	litions to avoid	:	Heat, flames a Avoid dust forr		
Incompatible materials Hazardous decomposition products		:	Oxidizing agents No hazardous decomposition products are known.		
1. TOXIC	COLOGICAL INFORMAT		N		
	Information on likely routes of exposure		Inhalation Skin contact Ingestion Eye contact		
	e toxicity				
	lassified based on availa	ble	information.		
	ponents:				
	um carbonate:	:		2,000 mg/kg 9 Test Guideline 420 he substance or mixture has no acute oral to	
Acute	Acute inhalation toxicity		LC50 (Rat): > 3 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403 Assessment: The substance or mixture has no acute tion toxicity		
Acute	Acute dermal toxicity			2,000 mg/kg) Test Guideline 402 he substance or mixture has no acute derma	
Florf	enicol:				
Acute	e oral toxicity	:	LD50 (Rat): > 2	2,000 mg/kg	
			LD50 (Mouse):	> 2,000 mg/kg	
			LD50 (Dog): >	1,280 mg/kg	
Acute	Acute inhalation toxicity		LC50 (Rat): > 0 Exposure time:		
Acute	e dermal toxicity	:	Remarks: No data available		
	e toxicity (other routes of nistration)	:)13 - 2,253 mg/kg ute: Intraperitoneal	



/ersion .1	Revision Date: 2023/09/30	SDS Number: 437405-00019	Date of last issue: 2023/04/04 Date of first issue: 2016/01/06				
			se): 100 mg/kg Route: Intravenous				
-	corrosion/irritation lassified based on ava	allable information					
	ponents:						
	um carbonate:						
Speci Metho Resu	od	: Rabbit : OECD Test : No skin irrit	Guideline 404 ation				
Florf	enicol:						
Spec Resu		: Rabbit : No skin irrit	ation				
	Serious eye damage/eye irritation Not classified based on available information.						
Com	ponents:						
Calci	um carbonate:						
Speci Resu Metho	lt	: Rabbit : No eye irrita : OECD Test	ation Guideline 405				
Florf	enicol:						
Speci Resu		: Rabbit : Mild eye irri	tation				
Resp	iratory or skin sens	itisation					
-	sensitisation lassified based on ava	ailable information.					
•	iratory sensitisation lassified based on ava						
Com	ponents:						
Test	sure routes ies od	: Skin contac : Mouse	node assay (LLNA) t Guideline 429				



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T S	Florfenicol: Test Type Species Result		:	Maximisation Test Guinea pig negative	t
Ν		ell mutagenicity sified based on availa	able	information.	
c	Calciun	n carbonate: kicity in vitro	:	Method: OECD Te Result: negative	osome aberration test in vitro
				Result: negative	mammalian cell gene mutation test
F	lorfen	icol:			
G	Genoto	kicity in vitro	:	Test Type: Bacter Result: negative	ial reverse mutation assay (AMES)
				Test Type: DNA d thesis in mammali Test system: rat h Result: negative	· · · · · ·
					mammalian cell gene mutation test se lymphoma cells
					osome aberration test in vitro ese hamster ovary cells
G	Genoto	xicity in vivo	:	Test Type: Micron Species: Mouse Cell type: Bone m Application Route Result: negative	arrow

Carcinogenicity

Not classified based on available information.



rsion	Revision Date: 2023/09/30	SDS Number: 437405-00019	Date of last issue: 2023/04/04 Date of first issue: 2016/01/06
Com	ponents:		
Florf	enicol:		
Expo Resu	cation Route sure time	: Rat : oral (gavage) : 2 Years : negative : Liver, Testes	
Spec	ies	: Mouse	
Expo Resu		: oral (gavage) : 2 Years : negative	
Targe	et Organs	: Testes, Blood	
Susp		ility. Suspected of da	maging the unborn child.
<u>Com</u>	ponents:		
Calci	um carbonate:		
Effec	ts on fertility	reproduction/d Species: Rat Application Ro	D Test Guideline 422
Effec ment	ts on foetal develop-	Species: Rat Application Ro	D Test Guideline 414
Florf	enicol:		
	ts on fertility	Species: Rat Application Ro Fertility: LOAE	o-generation reproduction toxicity study oute: Oral L: 12 mg/kg body weight used pup survival, reduced lactation
Effec ment	ts on foetal develop-	Species: Rat General Toxici Embryo-foetal Result: No tera	ibryo-foetal development ity Maternal: NOAEL: 4 mg/kg body weight toxicity: LOAEL: 40 mg/kg body weight atogenic effects, Fetotoxicity effects were seen only at maternally toxic do
		63.	





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		Gene Embi	eral Toxicity	e: oral (gavage) Maternal: NOAEL: 120 mg/kg body weight xicity: LOAEL: 40 mg/kg body weight ity		
•	Reproductive toxicity - As- sessment		Some evidence of adverse effects on sexual function and fertility, based on animal experiments., Some evidence of adverse effects on development, based on animal experiments.			
	- single exposure assified based on avai	lable inform	ation.			
STOT	- repeated exposure					
May o		ns (Liver, Br	ain, Testis,	Spinal cord, Blood, gallbladder) through pro-		
•	oonents:					
	enicol:					
Targe	et Organs ssment	 Liver, Brain, Testis, Spinal cord, Blood, gallbladder Causes damage to organs through prolonged or repe exposure. 				
	ated dose toxicity					
	um carbonate:					
Speci NOAE Applic	es EL cation Route sure time	: Inges : 28 Da		eline 422		
Speci NOAE Expos	Florfenicol:Species:NOAEL:Exposure time:Target Organs:		Dog 3 mg/kg 13 Weeks Liver, Testis, Brain, Spinal cord			
NOAE Expos	Species : NOAEL : Exposure time : Target Organs :		Mouse 200 mg/kg 13 Weeks Liver, Testis			
		: 13 W	Rat 30 mg/kg 13 Weeks Liver, Testis			



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NC LO Ex Ta Sp NC LO Ex	Species NOAEL LOAEL Exposure time Target Organs Species NOAEL LOAEL Exposure time Target Organs		Dog 3 mg/kg 12 mg/kg 52 Weeks Liver, gallbladder Rat 1 mg/kg 3 mg/kg 52 Weeks Testis	
As	piration toxicity t classified based on availa	ble		
12. ECC	DLOGICAL INFORMATION	N		
Ec	otoxicity			
<u>Co</u>	mponents:			
	Icium carbonate: xicity to fish	:	Exposure time: 96	Vater Accommodated Fraction
	xicity to daphnia and other uatic invertebrates	:	Exposure time: 48	Vater Accommodated Fraction
	xicity to algae/aquatic nts	:	mg/l Exposure time: 72	Vater Accommodated Fraction
			mg/l Exposure time: 72	Vater Accommodated Fraction
To	xicity to microorganisms	:	NOEC: 1,000 mg/ Exposure time: 3 Method: OECD T EC50: > 1,000 mg Exposure time: 3 Method: OECD T	h est Guideline 209 g/l h



Florfenicol: Image: Second	e: 2023/04/04 e: 2016/01/06
 Toxicity to fish LC50 (Lepomis macrochirus (Blueg Exposure time: 96 h Method: FDA 4.11 LC50 (Oncorhynchus mykiss (raint Exposure time: 96 h Method: FDA 4.11 Toxicity to daphnia and other aquatic invertebrates EC50 (Daphnia magna (Water flea Exposure time: 48 h Method: OECD Test Guideline 202 Toxicity to algae/aquatic plants EC50 (Pseudokirchneriella subcap mg/l Exposure time: 14 d Method: FDA 4.01 NOEC (Pseudokirchneriella subcap mg/l Exposure time: 14 d Method: FDA 4.01 IC50 (Skeletonema costatum (mari Exposure time: 72 h Method: ISO 10253 NOEC (Skeletonema costatum (mari Exposure time: 72 h Method: ISO 10253 EC50 (Lemna gibba (gibbous duck 	
 Exposure time: 96 h Method: FDA 4.11 Toxicity to daphnia and other aquatic invertebrates EC50 (Daphnia magna (Water flea Exposure time: 48 h Method: OECD Test Guideline 202 Toxicity to algae/aquatic plants EC50 (Pseudokirchneriella subcap mg/l Exposure time: 14 d Method: FDA 4.01 NOEC (Pseudokirchneriella subcap mg/l Exposure time: 14 d Method: FDA 4.01 IC50 (Skeletonema costatum (mari Exposure time: 72 h Method: ISO 10253 NOEC (Skeletonema costatum (mari Exposure time: 72 h Method: ISO 10253 EC50 (Lemna gibba (gibbous duck 	ill sunfish)): > 830 mg/l
aquatic invertebratesExposure time: 48 h Method: OECD Test Guideline 202Toxicity to algae/aquatic plantsEC50 (Pseudokirchneriella subcap mg/l Exposure time: 14 d NOEC (Pseudokirchneriella subcap mg/l Exposure time: 14 d Method: FDA 4.01NOEC (Pseudokirchneriella subcap mg/l Exposure time: 14 d Method: FDA 4.01IC50 (Skeletonema costatum (mari Exposure time: 72 h Method: ISO 10253NOEC (Skeletonema costatum (mari Exposure time: 72 h Method: ISO 10253EC50 (Lemna gibba (gibbous duck	ow trout)): > 780 mg/l
plantsmg/lExposure time: 14 d Method: FDA 4.01NOEC (Pseudokirchneriella subcap mg/l Exposure time: 14 d Method: FDA 4.01IC50 (Skeletonema costatum (mari Exposure time: 72 h Method: ISO 10253NOEC (Skeletonema costatum (mari Exposure time: 72 h Method: ISO 10253NOEC (Skeletonema costatum (mari Exposure time: 72 h Method: ISO 10253EC50 (Lemna gibba (gibbous duck	, -
mg/l Exposure time: 14 d Method: FDA 4.01 IC50 (Skeletonema costatum (mari Exposure time: 72 h Method: ISO 10253 NOEC (Skeletonema costatum (ma Exposure time: 72 h Method: ISO 10253 EC50 (Lemna gibba (gibbous duck	tata (green algae)): > 2.9
Exposure time: 72 h Method: ISO 10253 NOEC (Skeletonema costatum (ma Exposure time: 72 h Method: ISO 10253 EC50 (Lemna gibba (gibbous duck	bitata (green algae)): 2.9
Exposure time: 72 h Method: ISO 10253 EC50 (Lemna gibba (gibbous duck	ne diatom)): 0.0336 mg/l
	rine diatom)): 0.00423 m
Exposure time: 7 d Method: OECD Test Guideline 221	weed)): 0.76 mg/l
NOEC (Lemna gibba (gibbous duc Exposure time: 7 d Method: OECD Test Guideline 221	weed)): 0.39 mg/l
EC50 (Navicula pelliculosa (Freshv Exposure time: 72 h Method: OECD Test Guideline 201	vater diatom)): 61 mg/l
NOEC (Navicula pelliculosa (Fresh Exposure time: 72 h Method: OECD Test Guideline 201	water diatom)): 19 mg/l
EC50 (Anabaena flos-aquae): 0.06 Exposure time: 72 h Method: OECD Test Guideline 201	6 mg/l



sion	Revision Date: 2023/09/30		S Number: 7405-00019	Date of last issue: 2023/04/04 Date of first issue: 2016/01/06	
			NOEC (Anabaena Exposure time: 72 Method: OECD T		
	tor (Acute aquatic tox-	:	10		
icity) Toxicit icity)	ty to fish (Chronic tox-	:	NOEC (Pimephale Exposure time: 32 Method: OECD T		
Toxicity to daphnia and other aquatic invertebrates (Chron-ic toxicity)		:	NOEC (Daphnia r Exposure time: 21 Method: OECD T		
M-Fac toxicity	etor (Chronic aquatic y)	:	10		
	stence and degradabili ta available	ty			
Bioac	cumulative potential				
<u>Comp</u>	onents:				
	nicol: on coefficient: n- ol/water	:	log Pow: 0.373 pH: 7		
Mobili	ity in soil				
<u>Comp</u>	onents:				
	nicol: oution among environ- l compartments	:	Koc: 52 Method: FDA 3.08	3	
	adverse effects ta available				
DISPO	SAL CONSIDERATION	S			
Dispo	sal methods				
Waste	from residues	:		waste into sewer.	
Conta	minated packaging	:	 Dispose of in accordance with local regulations. Empty containers should be taken to an approved waste dling site for recycling or disposal. If not otherwise specified: Dispose of as unused product. 		

International Regulations



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UNI	RTDG		
UN number Proper shipping name		: UN 3077 : ENVIRONMEN N.O.S. (Florfenicol)	NTALLY HAZARDOUS SUBSTANCE, SOLID,
Class Packing group Labels Environmentally hazardous		: 9 : III : 9 : yes	
	A-DGR	. yes	
UN/ID No. Proper shipping name		: UN 3077 : Environmental (Florfenicol)	lly hazardous substance, solid, n.o.s.
Clas Pac Lab	king group	: 9 : III : Miscellaneous	
Pac	king instruction (cargo raft)	: 956	
Pac ger	king instruction (passen- aircraft)	: 956	
	rironmentally hazardous	: yes	
UN)G-Code number per shipping name	: UN 3077 : ENVIRONMEI N.O.S. (Florfenicol)	NTALLY HAZARDOUS SUBSTANCE, SOLID,
Lab Em:	king group	: 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.

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





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ter of		n No. 8	7/M-IND/PER/9	PER/4/2013 concerning the Revision of M //2009 concerning Globally Harmonized S als.
-	lation of the Ministe rdous to Health	r of He	ealth No. 472 o	f 1996 on the Safeguarding of Substance
Hazai	rdous substances tha	ıt must	be registered	: Not applicable
Gove stanc	-	No. 74	of 2001 on the	Management of Hazardous and Toxic Su
Hazai	rdous substances ap	proved	for use	: Not applicable
Prohil	bited substances			: Not applicable
Restr	icted substances			: Not applicable
Regu Matei		y of Tr	ade No. 7 of 20	022 on Distribution and Control of Hazard
Type of hazardous materials subject to distributio control, Annex I				n and : Not applicable
	of hazardous materia bl, Annex II	als subj	ect to distributio	n and : Not applicable
The c	components of this	produc	t are reported	in the following inventories:
AICS		:	not determined	-
DSL		:	not determine	ł
IECS	С	:	not determined	ŧ
OTHE	R INFORMATION			
Revis	ion Date	:	2023/09/30	
Furth	er information			
	ces of key data used t ile the Safety Data t	to :		cal data, data from raw material SDSs, OEC search results and European Chemicals Ag .europa.eu/
	format	:	yyyy/mm/dd	
Date	lonnat			
	ext of other abbrevi	ations		
	ext of other abbrevi	ations :	Indonesia. Oc	cupational Exposure Limits
Full to	ext of other abbrevi	ations :	Indonesia. Oc Long term exp	

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

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless 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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