



Vers 3.5	sion	Revision Date: 06.04.2024		S Number: 7965-00013	Date of last issue: 30.09.2023 Date of first issue: 06.05.2019
SEC	TION 1 Produc	: IDENTIFICATION t name	:	Multivitamin (with	n Soy Oil) Formulation
	Manufa	acturer or supplier's d	letai	ls	
	Compa		:		Pty Limited (trading as MSD Animal Health)
	Address		:	91-105 Harpin St Bendigo 3550, V	
	Teleph	one	:	1 800 033 461	
	Emerge	ency telephone number	• :	Poisons Informat	ion Centre: Phone 13 11 26
	E-mail	address	:	EHSDATASTEW	/ARD@msd.com
	Recom	mended use of the ch	nemi	ical and restrictio	ons on use
	Recom	mended use	:	Veterinary produce	ct
	Restric	tions on use	:	Not applicable	

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification Reproductive toxicity	:	Category 1A
Specific target organ toxicity - repeated exposure	:	Category 1 (Liver)
GHS label elements Hazard pictograms	:	
Signal word	:	Danger
Hazard statements	:	H360D May damage the unborn child. H372 Causes damage to organs (Liver) through prolonged or repeated exposure.
Precautionary statements	:	 Prevention: P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P260 Do not breathe mist or vapours. P264 Wash skin thoroughly after handling. P270 Do not eat, drink or smoke when using this product.





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P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:

P308 + P313 IF exposed or concerned: Get medical advice/ attention.

Storage:

P405 Store locked up.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

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)
Vitamin A Palmitate	79-81-2	>= 10 -< 30
(dl)-a-Tocopheryl acetate	7695-91-2	< 10
Colecalciferol	67-97-0	< 0.3

SECTION 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 plenty of water. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.
In case of eye contact	:	Flush eyes with water as a precaution. Get medical attention if irritation develops and persists.
If swallowed	:	
Most important symptoms	:	May damage the unborn child.
and effects, both acute and delayed		Causes damage to organs through prolonged or repeated exposure.
Protection of first-aiders	:	First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment when the potential for exposure exists (see section 8).
Notes to physician	:	Treat symptomatically and supportively.



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SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media		Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical
Unsuitable extinguishing media	:	None known.
Specific hazards during fire- fighting	:	Exposure to combustion products may be a hazard to health.
Hazardous combustion prod- ucts	:	Carbon oxides
Specific extinguishing meth- ods	:	Use extinguishing measures that are appropriate to local cir- cumstances and the surrounding environment. Use water spray to cool unopened containers. Remove undamaged containers from fire area if it is safe to do so. Evacuate area.
Special protective equipment for firefighters	:	In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec-	Use personal protective equipment. Follow safe handling advice (see section 7) and personal pro- tective equipment recommendations (see section 8).
Environmental precautions	 Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Prevent spreading over a wide area (e.g. by containment or oil barriers). Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained.
Methods and materials for containment and cleaning up	 Soak up with inert absorbent material. For large spills, provide dyking or other appropriate containment to keep material from spreading. If dyked material can be pumped, store recovered material in appropriate container. Clean up remaining materials from spill with suitable 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. Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.

SECTION 7. HANDLING AND STORAGE



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	nical measures		CONTROLS/PER	measures under EXPOSURE SONAL PROTECTION section.	
Local	Local/Total ventilation		If sufficient ventila ventilation.	tion is unavailable, use with local exhaust	
	Advice on safe handling		Do not get on skin or clothing. Do not breathe mist or vapours. Do not swallow. Avoid contact with eyes. 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 Keep container tightly closed. Do not eat, drink or smoke when using this product. Take care to prevent spills, waste and minimize release to the environment.		
Hygie	ene measures		flushing systems a place. When using do no	emical is likely during typical use, provide eye and safety showers close to the working of eat, drink or smoke. ed clothing before re-use.	
	litions for safe storage		Store locked up. Keep tightly close Store in accordan	ce with the particular national regulations.	
Mate	rials to avoid		Do not store with Strong oxidizing a	the following product types: agents	

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Vitamin A Palmitate	79-81-2	TWA	>= 1 < 10 ug/m3 (OEB 4)	Internal
(dl)-a-Tocopheryl acetate	7695-91-2	TWA	5000 ug/m3 (OEB 1)	Internal
Colecalciferol	67-97-0	TWA	5 µg/m3 (OEB 4)	Internal
		Wipe limit	50 µg/100 cm ²	Internal

Engineering measures	:	Minimize workplace exposure concentrations.
		If sufficient ventilation is unavailable, use with local exhaust ventilation.

Personal protective equipment

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



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Hand	protection		
M	aterial	: Chemical-res	istant gloves
Remarks		on the conce stance and s determined fo applications, chemicals of	es to protect hands against chemicals depending ntration and quantity of the hazardous sub- pecific to place of work. Breakthrough time is not or the product. Change gloves often! For special we recommend clarifying the resistance to the aforementioned protective gloves with the acturer. Wash hands before breaks and at the ay.
Eye p	protection		owing personal protective equipment:
Skin	and body protection	: Select appro resistance da potential. Skin contact	briate protective clothing based on chemical ata and an assessment of the local exposure must be avoided by using impervious protective res, aprons, boots, etc).

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	Aqueous solution
Colour	:	yellow
Odour	:	characteristic
Odour Threshold	:	No data available
рН	:	No data available
Melting point/freezing point	:	-5 °C
Initial boiling point and boiling range	:	194 °C
Flash point	:	244 °C
Evaporation rate	:	No data available
Flammability (solid, gas)	:	Not applicable
Flammability (liquids)	:	Not applicable
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapour pressure	:	No data available





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	Relative	e vapour density	:	No data available	9
	Relative	e density	:	0.9 - 0.94	
	Density		:	No data available)
	Solubilit Wate	ty(ies) er solubility	:	practically insolu	ble
	Solu	bility in other solvents	:	slightly soluble Solvent: Ethanol	
	Partitior octanol	n coefficient: n- /water	:	Not applicable	
		nition temperature	:	No data available	9
	Decom	position temperature	:	No data available)
	Viscosit Visc	y osity, dynamic	:	68.41 - 68.81 mF Method: Brookfie	
	Visc	osity, kinematic	:	No data available	9
	Explosi	ve properties	:	Not explosive	
	Oxidizir	ng properties	:	The substance o	r mixture is not classified as oxidizing.
	Molecul	ar weight	:	No data available	9
	Particle Particle	characteristics size	:	Not applicable	

SECTION 10. STABILITY AND REACTIVITY

Reactivity Chemical stability Possibility of hazardous reac- tions	: Sta	classified as a reactivity hazard. ble under normal conditions. n react with strong oxidizing agents.
Conditions to avoid Incompatible materials Hazardous decomposition products	: Oxi	ne known. dizing agents hazardous decomposition products are known.

SECTION 11. TOXICOLOGICAL INFORMATION

Exposure	routes
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: Inhalation Skin contact Ingestion



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			Eye contact			
	e toxicity lassified based on ava	ailabla	information			
Prod		allable				
Acute oral toxicity		:	Acute toxicity estimate: > 2,000 mg/kg Method: Calculation method			
Acute inhalation toxicity		:	Acute toxicity estimate: > 5 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: Calculation method			
Acute	e dermal toxicity	:	Acute toxicity e Method: Calcul	stimate: > 2,000 mg/kg ation method		
<u>Com</u>	ponents:					
Vitan	nin A Palmitate:					
Acute	e oral toxicity	:	LD50 (Rat): > 5 Remarks: Base	5,000 mg/kg ed on data from similar materials		
(dl)-a	-Tocopheryl acetate	:				
Acute	e oral toxicity	:	LD50 (Rat): > 5	5,000 mg/kg		
Acute dermal toxicity		:	LD50 (Rat): > 3,000 mg/kg Assessment: The substance or mixture has no acute dermal toxicity			
Cole	calciferol:					
Acute	e oral toxicity	:	LD50 (Rat, mal	e): 35 mg/kg		
Acute inhalation toxicity :		:	Acute toxicity estimate: 0.05 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: Expert judgement			
Acute	e dermal toxicity	:	Acute toxicity e Method: Expert	stimate: 50 mg/kg : judgement		
	corrosion/irritation lassified based on ava	ailable	information.			
<u>Com</u>	ponents:					
Vitan	nin A Palmitate:					
Species Method Result		:	: Rabbit : OECD Test Guideline 404 : Mild skin irritation			



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(dl)-a-Tocopheryl acetate:

Species	:	Rabbit
Method	:	OECD Test Guideline 404
Result	:	No skin irritation

Serious eye damage/eye irritation

Not classified based on available information.

Components:

Vitamin A Palmitate:

Species	:	Rabbit
Result	:	No eye irritation
Method	:	OECD Test Guideline 405

(dl)-a-Tocopheryl acetate:

Species	:	Rabbit
Result	:	No eye irritation
Method	:	OECD Test Guideline 405

Colecalciferol:

Species	:	Rabbit
Result	:	No eye irritation

Respiratory or skin sensitisation

Skin sensitisation

Not classified based on available information.

Respiratory sensitisation

Not classified based on available information.

Components:

Vitamin A Palmitate:

Test Type	:	Maximisation Test
Exposure routes	:	Skin contact
Species	:	Guinea pig
Method	:	OECD Test Guideline 406
Result	:	negative

(dl)-a-Tocopheryl acetate:

Test Type	:	Draize Test
Exposure routes	:	Skin contact
Species	:	Humans
Result	:	negative



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Test	sure routes ies	: Maurer optimisa : Skin contact : Guinea pig : negative	ation test
Chro	nic toxicity		
	cell mutagenicity lassified based on av	ailable information.	
<u>Com</u>	ponents:		
Vitam	nin A Palmitate:		
Geno	toxicity in vitro	: Test Type: Bac Result: negative	erial reverse mutation assay (AMES)
Geno	toxicity in vivo	cytogenetic ass Species: Mouse Application Rou	te: Ingestion Test Guideline 474
(dl)-a	-Tocopheryl acetate	:	
Geno	toxicity in vitro		omosome aberration test in vitro Test Guideline 473 e
			erial reverse mutation assay (AMES) Test Guideline 471 e
Geno	toxicity in vivo	: Test Type: Man cytogenetic ass Species: Mouse Application Rou Result: negative	te: Ingestion
Coleo	calciferol:		
Geno	toxicity in vitro		erial reverse mutation assay (AMES) Test Guideline 471 al
			tro mammalian cell gene mutation test Test Guideline 476 e
			omosome aberration test in vitro Test Guideline 473



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Gono	toxicity in vivo		Test Type: Mam	malian erythrocyte micronucleus test (in vivo
Geno			cytogenetic assa Species: Rat Application Rout	ay) te: Ingestion Test Guideline 474
			Test Type: In viv Species: Rat Application Rout Result: positive	vo mammalian alkaline comet assay
	cell mutagenicity - ssment	:	Weight of evider cell mutagen.	nce does not support classification as a germ
	nogenicity assified based on avai	ilable	information.	
<u>Com</u>	oonents:			
(dl)-a	-Tocopheryl acetate:			
	cation Route sure time	:	Rat Ingestion 104 weeks negative	
-	oductive toxicity lamage the unborn chi	ild.		
<u>Com</u>	oonents:			
Vitam	nin A Palmitate:			
Effect ment	s on foetal develop-	:	Test Type: Emb Species: Monke Application Rout Result: positive	
Repro sessn	oductive toxicity - As- nent	:	Positive evidence human epidemic	e of adverse effects on development from plogical studies.
(dl)-a	-Tocopheryl acetate:			
	s on fertility	:	Test Type: Repr test Species: Rat Application Rout Result: negative	
Effect ment	s on foetal develop-	:	Test Type: Emb Species: Rabbit Application Rout	ryo-foetal development te: Ingestion



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		Result: negative)
	- single exposure lassified based on av	ailable information.	
STOT	F - repeated exposure	e	
Cause	es damage to organs	(Liver) through prolong	ed or repeated exposure.
<u>Comp</u>	ponents:		
Vitam	nin A Palmitate:		
	sure routes	: Ingestion	
•	et Organs ssment	: Liver : Causes damage	e to organs through prolonged or repeated
		exposure.	
Rema	arks	: Based on data f	rom similar materials
Colec	calciferol:		
	sure routes	: Ingestion	
-	et Organs ssment	: Kidney, Blood, I	Bone ce significant health effects in animals at co
A3363	SSITICTIC) mg/kg bw or less.
Repe	ated dose toxicity		
<u>Com</u>	ponents:		
Vitam	nin A Palmitate:		
Speci		: Rat	
LOAE		: > 1 - 10 mg/kg	
Аррис	cation Route	: Ingestion : 3 Months	
Evno		. 3 10011015	
Expos Rema	sure time arks	: Based on data f	rom similar materials
Rema	arks		rom similar materials
Rema (dl)-a	arks -Tocopheryl acetate	:	rom similar materials
Rema	arks -Tocopheryl acetate ies		rom similar materials
Rema (dl)-a Speci NOAE Applio	arks -Tocopheryl acetate ies EL cation Route	: : Rat : 500 mg/kg : Ingestion	rom similar materials
Rema (dl)-a Speci NOAE Applio	arks -Tocopheryl acetate ies EL	: : Rat : 500 mg/kg	rom similar materials
Rema (dl)-a Speci NOAE Applic Expos	arks -Tocopheryl acetate ies EL cation Route	: : Rat : 500 mg/kg : Ingestion	rom similar materials
Rema (dl)-a Speci NOAE Applic Expose Colec Speci	arks - Tocopheryl acetate ies EL cation Route sure time calciferol: ies	: : Rat : 500 mg/kg : Ingestion : 90 Days : Rat	rom similar materials
Rema (dl)-a Speci NOAE Applic Expose Colec Speci NOAE	arks - Tocopheryl acetate ies EL cation Route sure time calciferol: ies EL	: : Rat : 500 mg/kg : Ingestion : 90 Days : Rat : Rat : 0.06 mg/kg	rom similar materials
Rema (dl)-a Speci NOAE Applic Expos Colec Speci NOAE LOAE	arks - Tocopheryl acetate ies EL cation Route sure time calciferol: ies EL	: : Rat : 500 mg/kg : Ingestion : 90 Days : Rat : 0.06 mg/kg : 0.3 mg/kg	rom similar materials
Rema (dl)-a Speci NOAE Applic Expos Colec Speci NOAE LOAE Applic	arks - Tocopheryl acetate ies EL cation Route sure time calciferol: ies EL	: : Rat : 500 mg/kg : Ingestion : 90 Days : Rat : Rat : 0.06 mg/kg	rom similar materials



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Aspiration toxicity

Not classified based on available information.

Experience with human exposure

Components:

Vitamin A Palmitate:

Ingestion

: Symptoms: liver impairment Remarks: Based on data from similar materials Symptoms: Embryo-foetal toxicity Remarks: Based on data from similar materials

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

Vitamin	A Palmitate:	
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Toxicity to fish	:	LC50 (Leuciscus idus (Golden orfe)): > 1,000 mg/l Exposure time: 96 h Method: DIN 38412 Remarks: Based on data from similar materials
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): > 100 mg/l Exposure time: 48 h Method: OECD Test Guideline 202 Remarks: Based on data from similar materials
Toxicity to algae/aquatic	:	EC50 (Desmodesmus subspicatus (green algae)): 152.94 mg/l Exposure time: 72 h
(dl)-a-Tocopheryl acetate:		
Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l Exposure time: 96 h Method: OECD Test Guideline 203
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): > 100 mg/l Exposure time: 48 h Method: OECD Test Guideline 202
Toxicity to algae/aquatic	:	ErC50 (Pseudokirchneriella subcapitata (green algae)): > 100 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
		NOEC (Pseudokirchneriella subcapitata (green algae)): >= 100 mg/l Exposure time: 72 h Method: OECD Test Guideline 201



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Toxici	ty to fish (Chronic tox-	:	NOEC (Oncorhyr	nchus mykiss (rainbow trout)): 100 mg/l
icity)			Exposure time: 2	8 d
Toxici	ty to microorganisms	:	EC50: > 927 mg/ Exposure time: 3 Method: ISO 819	0 min
Colec	alciferol:			
Toxici	ty to fish	:		o (zebra fish)): > 100 mg/l
			Exposure time: 9 Method: OECD T	est Guideline 203
Toxici	ty to daphnia and other	:		nagna (Water flea)): > 100 mg/l
aquat	ic invertebrates		Exposure time: 4 Method: OECD T	8 h est Guideline 202
Toxici plants	ty to algae/aquatic	:	100 mg/l Exposure time: 9	
			Method. OECD 1	est Guideline 201
Persi	stence and degradabili	ty		
<u>Comp</u>	oonents:			
	in A Palmitate:			
Biode	gradability	:	Result: Not readi Biodegradation:	
			Exposure time: 2	
			Method. OECD 1	
(dl)-a	-Tocopheryl acetate:			
Biode			Result: Not readi	
Diouc	gradability	:		
2.000	gradability	:	Biodegradation: Exposure time: 2	21.7 - 31 % 8 d
2.040	gradability	:	Biodegradation: Exposure time: 2	21.7 - 31 %
	gradability calciferol:	:	Biodegradation: Exposure time: 2	21.7 - 31 % 8 d
Colec		:	Biodegradation: Exposure time: 2 Method: OECD T Result: Not readi	21.7 - 31 % 8 d est Guideline 301C ly biodegradable.
Colec	alciferol:	:	Biodegradation: Exposure time: 2 Method: OECD T Result: Not readi Biodegradation: Exposure time: 2	21.7 - 31 % 8 d est Guideline 301C ly biodegradable. <= 7 %
Colec Biode	alciferol:	:	Biodegradation: Exposure time: 2 Method: OECD T Result: Not readi Biodegradation: Exposure time: 2	21.7 - 31 % 8 d est Guideline 301C ly biodegradable. <= 7 % 8 d
Colec Biode Bioac	:alciferol: gradability	:	Biodegradation: Exposure time: 2 Method: OECD T Result: Not readi Biodegradation: Exposure time: 2	21.7 - 31 % 8 d est Guideline 301C ly biodegradable. <= 7 % 8 d



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	tion coefficient: n- nol/water	: log Pow: > 6.2	
Partit	calciferol: tion coefficient: n- nol/water	: log Pow: > 6.2 Method: OECD	Test Guideline 107
Mobi	lity in soil		
No da	ata available		
Othe	r adverse effects		
No da	ata available		
SECTION	13. DISPOSAL CON	SIDERATIONS	
Disp	osal methods		
-	e from residues	: Do not dispose	of waste into sewer.

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 Proper shipping name Class Subsidiary risk Packing group Labels Environmentally hazardous		Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable no
IATA-DGR UN/ID No. Proper shipping name Class Subsidiary risk Packing group Labels Packing instruction (cargo aircraft) Packing instruction (passen- ger aircraft)		Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable
IMDG-Code UN number Proper shipping name Class Subsidiary risk	:	Not applicable Not applicable Not applicable Not applicable





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Packing group	:	Not applicable
Labels	:	Not applicable
EmS Code	:	Not applicable
Marine pollutant	:	Not applicable

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

Not applicable for product as supplied.

National Regulations

ADG		
UN number	:	Not applicable
Proper shipping name	:	Not applicable
Class	:	Not applicable
Subsidiary risk	:	Not applicable
Packing group	:	Not applicable
Labels	:	Not applicable
Hazchem Code	:	Not applicable

Special precautions for user

Not applicable

SECTION 15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mix- ture				
Therapeutic Goods (Poisons Standard) Instrument	:	Schedule 7 (Please use the original publication to check for specific uses, specific conditions or threshold limits that might apply for this chemical)		
Prohibition/Licensing Requirem	ner	nts :		There is no applicable prohibition, authorisation and restricted use requirements, including for carcino- gens referred to in Schedule 10 of the model WHS Act and Regula- tions.
The components of this product are reported in the following inventories:				
AICS	:	not determined		
DSL	:	not determined		
IECSC	:	not determined		

SECTION 16: ANY OTHER RELEVANT INFORMATION

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



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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 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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