

Caspofungin Formulation

Version 6.0	Revision Date: 06.07.2024		DS Number: 303-00027	Date of last issue: 06.04.2024 Date of first issue: 21.10.2014			
SECTIC	ON 1: Identification of	the	substance/mixt	ure and of the company/undertaking			
1.1 Proc	luct identifier						
Tra	de name	:	Caspofungin Forr	nulation			
		the s		ure and uses advised against			
	e of the Sub- nce/Mixture	:	Pharmaceutical				
Rec on t	commended restrictions use	:	Not applicable				
1.3 Deta	ils of the supplier of the	e saf	ety data sheet				
Cor	npany	:	MSD 117 16th Road 1685 Halfway ho	use, Midrand, South Africa			
Tele	ephone	:	+27 11 655 3000				
	ail address of person consible for the SDS	:	EHSDATASTEW	ARD@msd.com			
1 4 Emo	1.4 Emorgonov tolophono numbor						

1.4 Emergency telephone number

+1-908-423-6000

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Serious eye damage, Category 1	H318: Causes serious eye damage.
Effects on or via lactation	H362: May cause harm to breast-fed
Short-term (acute) aquatic hazard, Cate-	H400: Very toxic to aquatic life.
gory 1 Long-term (chronic) aquatic hazard, Cat- egory 1	H410: Very toxic to aquatic life with lo effects.

H362: May cause harm to breast-fed children. H400: Very toxic to aquatic life. H410: Very toxic to aquatic life with long lasting

2.2 Label elements

Signal word

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms



Causes serious eye damage. May cause harm to breast-fed children. H362



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		H410	Very toxic	to aquatic life wi	ith long lasting effects.
Precau	utionary statements	: Preve	ntion:		
		P260	Do not hai nd understo Do not bre Avoid rele	od.	ety precautions have been onment.
		with w sent a	+ P351 + P3 ater for seve	eral minutes. Rei lo. Continue rins k/ doctor.	IN EYES: Rinse cautiously move contact lenses, if pre- ing. Immediately call a

Hazardous components which must be listed on the label:

Caspofungin Acetic acid

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Contact with dust can cause mechanical irritation or drying of the skin.

May form explosive dust-air mixture during processing, handling or other means.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
Caspofungin	179463-17-3	Eye Dam. 1; H318 Lact.H362 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 10 M-Factor (Chronic aquatic toxicity): 1	>= 30 - < 50
Acetic acid	64-19-7 200-580-7 607-002-00-6	Flam. Liq. 3; H226 Skin Corr. 1A; H314 Eye Dam. 1; H318	>= 1 - < 3



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For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measure	2S
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.
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).
If inhaled :	Get medical attention.
In case of skin contact :	Wash with water and soap. Get medical attention.
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 immediately.
If swallowed :	Get medical attention.
4.2 Most important symptoms and	effects, both acute and delayed
Risks :	Causes serious eye damage. May cause harm to breast-fed children.
	Contact with dust can cause mechanical irritation or drying of the skin.
4.3 Indication of any immediate me	dical attention and special treatment needed
Treatment :	Treat symptomatically and supportively.

SECTION 5: Firefighting measures

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

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire- : Avoid generating dust; fine dust dispersed in air in sufficient



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fighting			concentrations, and in the presence of an ignition source is a potential dust explosion hazard. Exposure to combustion products may be a hazard to health		
	Hazard ucts	lous combustion prod-	:	Carbon oxides	
5.3	Advice	for firefighters			
	Specia for firef	I protective equipment ighters	:		e, wear self-contained breathing apparatus. tective equipment.
	Specifi ods	c extinguishing meth-	:	cumstances and t Use water spray t	g measures that are appropriate to local cir- the surrounding environment. to cool unopened containers. ged containers from fire area if it is safe to do

SECTION 6: Accidental release measures

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

6.4 Reference to other sections

See sections: 7, 8, 11, 12 and 13.



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SECTION 7: Handling and storage

7.1 Precautions for safe handling Technical measures Static electricity may accumulate and ignite suspended dust causing an explosion. Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres. Local/Total ventilation Use only with adequate ventilation. Avoid contact during pregnancy and while nursing. Advice on safe handling Do not breathe dust. Do not swallow. Do not get in eyes. Avoid prolonged or repeated contact with skin. Wash skin thoroughly after handling. Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure assessment Keep container tightly closed. Minimize dust generation and accumulation. Keep container closed when not in use. Keep away from heat and sources of ignition. Take precautionary measures against static discharges. Do not eat, drink or smoke when using this product. Take care to prevent spills, waste and minimize release to the environment. If exposure to chemical is likely during typical use, provide eye Hygiene measures flushing systems and safety showers close to the working place. When using do not eat, drink or smoke. Wash contaminated clothing before re-use. 7.2 Conditions for safe storage, including any incompatibilities Requirements for storage Keep in properly labelled containers. Keep tightly closed. areas and containers Store in accordance with the particular national regulations. Advice on common storage Do not store with the following product types: : Strong oxidizing agents 7.3 Specific end use(s) Specific use(s) No data available

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis			
Caspofungin	179463-17- 3	TWA	140 µg/m3 (OEB 2)	Internal			
Sucrose	57-50-1	OEL-RL	10 mg/m3	ZA OEL			
	Further information: Occupational Exposure Limits - Restricted Limits For Hazardous Chemical Agents						



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Ac	cetic acid	64-19-7	OEL-RL	20 ppm	ZA OEL
		Further information: Occupational Hazardous Chemical Agents		Exposure Limits - Restricted	Limits For
			OEL- RL STEL/C	30 ppm	ZA OEL
			nation: Occupational nemical Agents	Exposure Limits - Restricted	Limits For
			TWA	10 ppm 25 mg/m3	2017/164/EU
			STEL	20 ppm 50 mg/m3	2017/164/EU

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health ef- fects	Value
Acetic acid	Workers	Inhalation	Long-term local ef- fects	25 mg/m3
	Workers	Inhalation	Acute local effects	25 mg/m3
	Consumers	Inhalation	Long-term local ef- fects	25 mg/m3
	Consumers	Inhalation	Acute local effects	25 mg/m3

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
Acetic acid	Fresh water	3,058 mg/l
	Freshwater - intermittent	30,58 mg/l
	Marine water	0,3058 mg/l
	Sewage treatment plant	85 mg/l
	Fresh water sediment	11,36 mg/kg dry weight (d.w.)
	Marine sediment	1,136 mg/kg dry weight (d.w.)
	Soil	0,47 mg/kg dry weight (d.w.)

8.2 Exposure controls

Engineering measures

Ensure adequate ventilation, especially in confined areas.

Minimize workplace exposure concentrations.

Apply measures to prevent dust explosions.

Ensure that dust-handling systems (such as exhaust ducts, dust collectors, vessels, and processing equipment) are designed in a manner to prevent the escape of dust into the work area (i.e., there is no leakage from the equipment).

Personal protective equipment

Eye/face protection	:	Wear the following personal protective equipment: Chemical resistant goggles must be worn. If splashes are likely to occur, wear: Face-shield
Hand protection		
Material	:	Chemical-resistant gloves
Remarks	:	Choose gloves to protect hands against chemicals depending



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		stance and sp determined fo applications, v chemicals of t	ntration and quantity of the hazardous sub- becific to place of work. Breakthrough time is not r the product. Change gloves often! For special we recommend clarifying the resistance to he aforementioned protective gloves with the cturer. Wash hands before breaks and at the ay.			
Skin and body protection			riate protective clothing based on chemical re- and an assessment of the local exposure poten-			
Resp	iratory protection	clothing (glove : If adequate lo sure assessm	 Skin contact must be avoided by using impervious protective clothing (gloves, aprons, boots, etc). If adequate local exhaust ventilation is not available or exposure assessment demonstrates exposures outside the recommended guidelines, use respiratory protection. 			
Fil	lter type		rticulates and organic vapour type (A-P)			

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance Colour Odour Odour Threshold	:	powder off-white No data available 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	:	Not applicable
Evaporation rate	:	Not applicable
Flammability (solid, gas)	:	May form explosive dust-air mixture during processing, han- dling or other means.
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapour pressure	:	Not applicable
Relative vapour density	:	Not applicable
Relative density	:	No data available
Density	:	No data available
Solubility(ies) Water solubility	:	No data available



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	octano Auto-ig	on coefficient: n- l/water gnition temperature position temperature	:	Not applicable No data available No data available	-
		ity cosity, kinematic ive properties	:	Not applicable Not explosive	
	Oxidizi	ng properties	:	The substance of	r mixture is not classified as oxidizing.
9.2	Flamm Molecu	nformation ability (liquids) ılar weight ım ignition energy	::	Not applicable No data availabl 100 - 300 mJ 30 - 100 mJ	e
	Particle	e size	:	No data availabl	e

SECTION 10: Stability and reactivity

10.1 Reactivity

Not classified as a reactivity hazard.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions :	May form explosive dust-air mixture during processing, han- dling or other means. Can react with strong oxidizing agents.
10.4 Conditions to avoid	
Conditions to avoid :	Heat, flames and sparks. Avoid dust formation.
10.5 Incompatible materials Materials to avoid :	Oxidizing agents

10.6 Hazardous decomposition products

No hazardous decomposition products are known.

SECTION 11: Toxicological information

11.1 Information on toxicological effects



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	Informati exposure	ion on likely routes of e	:	Inhalation Skin contact Ingestion Eye contact	
	Acute to	oxicity sified based on availa	ble	information.	
	Compor	nents:			
	Caspofu	ıngin:			
	Acute or	al toxicity	:	LD50 (Mouse): > 2	2.000 mg/kg
	Acute to: administ	xicity (other routes of ration)	:	LD50 (Mouse): 19 Application Route:	
				LD50 (Rat): 38 mg Application Route	
••	Acetic a	cid:			
	Acute or	al toxicity	:	LD50 (Rat): > 2.000 - 5.000 mg/kg Remarks: Based on data from similar materials	
	Acute inl	halation toxicity	:	Assessment: Corr	osive to the respiratory tract.
	Acute de	ermal toxicity	:	LD50 (Rabbit): > 5.000 mg/kg Remarks: Based on data from similar materials	
		rrosion/irritation sified based on availal	ble	information.	
	Caspofu				
II	Species Result	ingin.	:	Rabbit Mild skin irritation	
	Acetic a	cid:			
II	Species Result		:	Rabbit Corrosive after 3 r	ninutes or less of exposure
		eye damage/eye irri serious eye damage.	tati	on	
	<u>Compor</u>	nents:			
	Caspofu	ıngin:			
	Species Method		:	Rabbit	
	Result		:	Bovine cornea (BC Irreversible effects	
	Acetic a	cid:			
	Species		:	Rabbit	
				0 / 10	



ersion 0	Revision Date: 06.07.2024	SDS Num 24303-000		
Result		: Irrevei	sible effects on the eye	
Respi	ratory or skin sensi	tisation		
	ensitisation assified based on ava	ailable informa	ition	
	ratory sensitisation			
-	assified based on ava		ition.	
	cell mutagenicity			
_	assified based on ava	ailable informa	ition.	
	onents:			
	ofungin:	T (T		
Genoto	oxicity in vitro	Test s	ype: Chromosomal aberration ystem: Chinese hamster ovary cells : negative	
			ype: Bacterial reverse mutation assay (AMES) : negative	
		Test s	ype: Alkaline elution assay ystem: rat hepatocytes : negative	
		Test s	ype: In vitro mammalian cell gene mutation test ystem: Chinese hamster fibroblasts : negative	
	oxicity in vivo	Specie Cell ty	ype: Chromosomal aberration es: Mouse pe: Bone marrow : negative	
II Acetic	acid:			
	oxicity in vitro		ype: Bacterial reverse mutation assay (AMES) : negative	
			ype: Chromosome aberration test in vitro	
		thesis	ype: DNA damage and repair, unscheduled DNA s in mammalian cells (in vitro) : negative	syn-
		Result	ype: In vitro mammalian cell gene mutation test : equivocal rks: Based on data from similar materials	
Genote	oxicity in vivo	cytoge Specie	ype: Mammalian erythrocyte micronucleus test (in enetic assay) es: Rat ation Route: inhalation (vapour)	viv



ersion D	Revision Date: 06.07.2024		S Number: 03-00027	Date of last issue: 06.04.2024 Date of first issue: 21.10.2014
			Result: negati [.] Remarks: Bas	ve ed on data from similar materials
	nogenicity lassified based on ava	ailable i	nformation.	
	ponents:			
	c acid:			
Speci Applio	es cation Route sure time	:	Mouse Skin contact 32 weeks negative	
•	oductive toxicity cause harm to breast-	fed child	dren.	
-	oonents:			
Casp	ofungin:			
Effect	ts on fertility		Application Ro Fertility: NOA	male and female oute: Intravenous injection EL Parent: 5 mg/kg body weight ects on fertility and early embryonic develop-
Effect ment	ts on foetal develop-		Species: Rat Application Ro General Toxic Embryo-foetal Symptoms: At	abryo-foetal development bute: Intravenous injection ity Maternal: LOAEL: 5 mg/kg body weight toxicity: NOAEL F1: 2 mg/kg body weight onormalities of the musculosketal system otoxic effects and adverse effects on the off- etected.
			General Toxic Developmenta	bit bute: Intravenous injection ity Maternal: NOAEL: 3 mg/kg body weight al Toxicity: NOAEL F1: >= 6 mg/kg body weigh otoxic effects and adverse effects on the off-
Repro sessn	oductive toxicity - As- nent		Studies indica od	ting a hazard to babies during the lactation per
Aceti	c acid:			
Effect ment	ts on foetal develop-		Species: Rat	nbryo-foetal development oute: Ingestion ve



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	Γ - single exposure lassified based on av	ailable ir	nformation.	
	F - repeated exposur lassified based on av		nformation.	
Repe	ated dose toxicity			
<u>Com</u>	ponents:			
Spec NOA LOAE Appli Expo Num Targe Spec LOAE Appli Expo	EL EL cation Route sure time ber of exposures et Organs ies EL cation Route sure time		Monkey 2 mg/kg 5 mg/kg Intravenous 27 Weeks daily Liver Rat 1,8 mg/kg Intravenous 27 Weeks	
Spec NOAI LOAE Appli Expo Numl	EL		Swelling of tissue Rat 2 mg/kg 5 mg/kg Intravenous 14 Weeks daily Swelling of tissue	
Spec NOA Appli		: :	Rat 290 mg/kg Ingestion 8 Weeks	

Aspiration toxicity

Not classified based on available information.

Components:

Caspofungin:

No aspiration toxicity classification

SECTION 12: Ecological information

12.1 Toxicity

Components:

Caspofungin:



rsion	Revision Date: 06.07.2024		9S Number: 303-00027	Date of last issue: 06.04.2024 Date of first issue: 21.10.2014
Toxici	ty to fish	:	LC50 (Pimephale Exposure time: 96	s promelas (fathead minnow)): 2,4 mg/l S h
	ty to daphnia and other ic invertebrates	:	EC50 (Daphnia m Exposure time: 48	hagna (Water flea)): 22,6 mg/l 3 h
Toxici plants	ty to algae/aquatic	:	EC50 (Pseudokiro mg/l Exposure time: 72	chneriella subcapitata (green algae)): 0,1 2 h
			NOEC (Pseudokir mg/l Exposure time: 72	rchneriella subcapitata (green algae)): 0,05 2 h
M-Fac icity)	ctor (Acute aquatic tox-	:	10	
Toxici	ty to microorganisms	:	EC50 : > 127 mg/ Exposure time: 3 Test Type: Respir Method: OECD Te	h ration inhibition
			NOEC : 38 mg/l Exposure time: 3 Test Type: Respir Method: OECD Te	ation inhibition
Toxici icity)	ty to fish (Chronic tox-	:	NOEC: 0,084 mg/ Exposure time: 32 Species: Pimepha Method: OECD To	2 d ales promelas (fathead minnow)
	ty to daphnia and other ic invertebrates (Chron- city)	:	NOEC: 0,67 mg/l Exposure time: 21 Species: Daphnia Method: OECD Te	magna (Water flea)
M-Fac toxicit	ctor (Chronic aquatic y)	:	1	
Aceti	c acid:			
	ity to fish	:	Exposure time: 96	hus mykiss (rainbow trout)): > 100 mg/l ኝ h on data from similar materials
	ty to daphnia and other ic invertebrates	:	Exposure time: 48 Method: OECD Te	
Toxici plants	ty to algae/aquatic	:	Exposure time: 72	ema costatum (marine diatom)): > 100 mg/l 2 h on data from similar materials
			NOEC (Skeletone	ema costatum (marine diatom)): > 1 mg/l



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		Exposure time: 7 Remarks: Based	2 h I on data from similar materials
Toxicity to microorga	anisms :	NOEC (Pseudon Exposure time: 1	nonas putida): 1.150 mg/l 6 h
Toxicity to daphnia a aquatic invertebrates ic toxicity)		Exposure time: 2	21 d a magna (Water flea)
12.2 Persistence and de	egradability		
Components:			
Caspofungin:			
Biodegradability	:	Biodegradation: Exposure time: 2	28 d
		Method: OECD	Test Guideline 302B
Stability in water	:	Degradation half	life (DT50): 2,8 h
Acetic acid:			
Biodegradability	:	Result: Readily b	
		Biodegradation: Exposure time: 2	
12.3 Bioaccumulative p	otential		
Components:			
Caspofungin:			
Partition coefficient: octanol/water	n- :	log Pow: -1,6	
Acetic acid:			
Partition coefficient: octanol/water	n- :	log Pow: -0,17	
12.4 Mobility in soil No data available			
12.5 Results of PBT and	d vPvB asse	essment	
Product:			
Assessment	:	to be either persi	nixture contains no components considered istent, bioaccumulative and toxic (PBT), or nd very bioaccumulative (vPvB) at levels of
12.6 Other adverse effe	cts		
Product:			
Endocrine disrupting	g poten- :	The substance/m	nixture does not contain components consid-
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tial		ered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.		
SECTION	13: Disposal con	siderations		
13.1 Wast	e treatment methods	5		
Produ Conta	uct aminated packaging	According to are not proc Waste code discussion v Do not disp : Empty conta dling site fo	in accordance with local regulations. to the European Waste Catalogue, Waste Codes duct specific, but application specific. the should be assigned by the user, preferably in with the waste disposal authorities. ose of waste into sewer. ainers should be taken to an approved waste han- r recycling or disposal. vise specified: Dispose of as unused product.	
SECTION	14: Transport info	ormation		
14.1 UN n	umber			
ADN		: UN 3077		
ADR		: UN 3077		
RID		: UN 3077		
IMDG	ì	: UN 3077		
ΙΑΤΑ		: UN 3077		
14.2 UN p	roper shipping name)		
ADN		: ENVIRONM N.O.S. (Caspofung	IENTALLY HAZARDOUS SUBSTANCE, SOLID,	
ADR		N.O.S.	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Caspofungin)	
RID		N.O.S.	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Caspofungin)	
IMDG	ì	N.O.S.	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Caspofungin)	
ΙΑΤΑ			Environmentally hazardous substance, solid, n.o.s. (Caspofungin)	
14.3 Trans	sport hazard class(e	5)		
		Class	Subsidiary risks	
ADN		: 9		



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Α	DR		:	9	
R	ID		:	9	
IN	/IDG		:	9	
IA	ATA		:	9	
14.4 P	acking	g group			
Pa Cl Ha	lassific	group cation Code Identification Number		III M7 90 9	
Pa Cl Ha La	lassific azard abels	group cation Code Identification Number restriction code		III M7 90 9 (-)	
Pa Cl Ha	lassific	l group cation Code Identification Number		III M7 90 9	
Pa La	/IDG acking abels mS Co	l group ode	:	III 9 F-A, S-F	
Pa ai Pa Pa	acking ircraft) acking	Cargo) instruction (cargo instruction (LQ) group	:	956 Y956 III Miscellaneous	
IA Pa Pa Pa	ATA (P acking er airci acking		:	956 Y956 III Miscellaneous	
14.5 E	nviror	nmental hazards			
	. DN nviron	mentally hazardous	:	yes	
	DR nviron	mentally hazardous	:	yes	
	I D nviron	mentally hazardous	:	yes	
	/IDG larine	pollutant	:	yes	



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	(Passenger)				
Envir	onmentally hazardous	s : yes			
	(Cargo) onmentally hazardous	s : yes			
14.6 Spec	ial precautions for u	Iser			
based Shee	d upon the properties	of the unpackaged m sifications may vary b	e for informational purposes only, and solely aterial as it is described within this Safety Data y mode of transportation, package sizes, and va		
14.7 Trans	sport in bulk accord	ing to Annex II of Ma	arpol and the IBC Code		
Rema	arks	: Not applicable	e for product as supplied.		
SECTION	15: Regulatory in	formation			
ture The c	components of this I	product are reported	/legislation specific for the substance or mix		
AICS		: not determine	d		
DSL		: not determine	d		
IECS	С	: not determine	d		
A Chemica	nical safety assessm al Safety Assessment 16: Other informa	has not been carried	out.		
Other	information		changes have been made to the previous versio d in the body of this document by two vertical		
Full t	ext of H-Statements				
H226		: Flammable lic	uid and vapour.		
H314			e skin burns and eye damage.		
H318			us eye damage.		
H362 H400		: Very toxic to a	arm to breast-fed children.		
H410			aquatic life with long lasting effects.		
	ext of other abbrevia	-			
	tic Acute		cute) aquatic hazard		
	tic Acute		nronic) aquatic hazard		
Eye D		: Serious eye d			
Flam.		: Flammable liquids			
Lact.		: Effects on or via lactation			
Skin (: Skin corrosion			
2017/	/164/EU		mission Directive 2017/164/EU establishing a ndicative occupational exposure limit values		



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ZA O	EL		The Regulations for Hazardous Chemical pational Exposure Limits		
2017	/164/EU / STEL	: Short term ex			
2017/164/EU / TWA		: Limit Value -	: Limit Value - eight hours		
ZA OEL / OEL-RL			: Occupational Exposure Limit Restricted limit - 8- hour expo- sure or equivalent (12 hour shifts)		
ZA OEL / OEL- RL STEL/C			Occupational Exposure Limit Restricted limit - Short term oc- cupational exposure limits / ceiling limits		

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road: AIIC - Australian Inventory of Industrial Chemicals: ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation: Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA -European Chemicals Agency; EC-Number - European Community number; 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; 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; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; 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; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; 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

Further information

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

Classification of the	Classification procedure:	
Eye Dam. 1	H318	Calculation method
Lact.	H362	Calculation method
Aquatic Acute 1	H400	Calculation method
Aquatic Chronic 1	H410	Calculation method



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

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