

Fosaprepitant Formulation

Versi 5.1	on	Revision Date: 26.09.2023		DS Number 3927-00023		Date of last issue: 20.03.2023 Date of first issue: 21.10.2014		
SEC	SECTION 1: Identification of the substance/mixture and of the company/undertaking							
	r oduc t Trade r	t identifier name	:	Fosaprep	itant Fo	rmulation		
120	olovar	at identified uses of t	ho c	substance	or mixt	ure and uses advised against		
ι	Use of	the Sub- /Mixture	:	Pharmace		ure and uses advised against		
	Recom on use	mended restrictions	:	Not applic	cable			
	etails Compa	of the supplier of the any	saf :	MSD 117 16th	Road	use, Midrand, South Africa		
٦	Teleph	one	:	+27 11 65	55 3000			
		address of person sible for the SDS	:	EHSDAT	ASTEW	ARD@msd.com		
	-	ency telephone numb -423-6000	er					
SEC	TION	2: Hazards identific	atio	on				
2.1 C	lassifi	cation of the substar	ıce	or mixture				
Classification (REGULATION (EC) No 12 Acute toxicity, Category 4 Skin irritation, Category 2 Eye irritation, Category 2 Specific target organ toxicity - repeated exposure, Category 2 Long-term (chronic) aquatic hazard, Cat- egory 1			peated	H302: H315: H319: H373: longed	Harmful if swallowed. Causes skin irritation. Causes serious eye irritation. May cause damage to organs through pro- or repeated exposure. Very toxic to aquatic life with long lasting			

2.2 Label elements

Signal word

Labelling (REGULATION (EC) No 1272/2008)

:

Hazard pictograms



Hazard statements



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		H319 Cause H373 May ca repeated expo	is skin irritation. is serious eye irritation. ause damage to organs through prolonged or sure. oxic to aquatic life with long lasting effects.			
Precau	itionary statements	Prevention:				
		P273 Avoid	t breathe dust. release to the environment. protective gloves/ eye protection/ face protection.			
		Response:				
		P337 + P313 attention.	edical advice/ attention if you feel unwell. If eye irritation persists: Get medical advice/ t spillage.			

Hazardous components which must be listed on the label:

Fosaprepitant

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.

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)
Fosaprepitant	265121-04-8	Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Irrit. 2; H319 STOT RE 2; H373 (Reproductive or- gans, Prostate) Aquatic Chronic 1; H410 M-Factor (Chronic aquatic toxicity): 1	>= 30 - < 50
Disodium EDTA, dihydrate	6381-92-6	Acute Tox. 4; H332 STOT RE 2; H373 (Respiratory Tract)	>= 1 - < 10

For explanation of abbreviations see section 16.



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SECTION	N 4: First aid measur	es		
.1 Descr	iption of first aid meas	ures		
Gene	eral advice	vice	immediatel	ccident or if you feel unwell, seek medical ad- ly. Is persist or in all cases of doubt seek medica
Prote	ection of first-aiders	and	use the rec	nders should pay attention to self-protection, commended personal protective equipment tial for exposure exists (see section 8).
lf inha	aled			ve to fresh air. ention if symptoms occur.
In cas	se of skin contact	for a and Get Was	at least 15 n shoes. medical att sh clothing b	act, immediately flush skin with plenty of wate ninutes while removing contaminated clothing ention. pefore reuse. an shoes before reuse.
In cas	se of eye contact	for a If ea	at least 15 n	move contact lens, if worn.
lf swa	allowed	so b Get Rins	by medical p medical att se mouth th	
.2 Most i	important symptoms a	nd effect	s, both acu	ite and delayed
Risks	3	Cau Cau May		
4.3 Indica	tion of any immediate	medical	attention a	nd special treatment needed
Treat	-			atically and supportively.
SECTION	N 5: Firefighting mea	sures		
-	guishing media			
Suita	ble extinguishing media	Alco	er spray phol-resistar	

Carbon dioxide (CO2)

Dry chemical



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Un: me	suitable extinguishing dia	:	None known.	
5.2 Spe	cial hazards arising from	n the	e substance o	r mixture
	ecific hazards during fire- ting	:	concentration potential dust	ting dust; fine dust dispersed in air in sufficient s, and in the presence of an ignition source is a explosion hazard. combustion products may be a hazard to health.
Ha: uct	zardous combustion prod- s	• :	Carbon oxide Nitrogen oxid Metal oxides	-
5.3 Adv	ice for firefighters			
	ecial protective equipment firefighters	t :		of fire, wear self-contained breathing apparatus. protective equipment.
Spe ods	ecific extinguishing meth-	:	cumstances a Use water sp	hing measures that are appropriate to local cir- and the surrounding environment. ray to cool unopened containers. amaged containers from fire area if it is safe to do a.

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 containment 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



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		certain local c	or national requirements.
	ence to other sections		
	N 7: Handling and st		
7.1 Preca	utions for safe handlir	ıg	
Tech Loca	nical measures I/Total ventilation ce on safe handling	 Static electric causing an ex Provide adequand bonding, Use only with Do not get on Do not breath Do not swallo Do not get in Wash skin tho Handle in acc 	uate precautions, such as electrical grounding or inert atmospheres. adequate ventilation. skin or clothing. e dust. w.
		Sessment Minimize dust Keep containe Keep away fro Take precauti Do not eat, dr	generation and accumulation. er closed when not in use. om heat and sources of ignition. onary measures against static discharges. ink or smoke when using this product. orevent spills, waste and minimize release to the
Hygie	ene measures	flushing syste place. When u	chemical is likely during typical use, provide eye ms and safety showers close to the working using do not eat, drink or smoke. Wash contami- before re-use.
7.2 Condi	itions for safe storage	including any inc	ompatibilities
	irements for storage s and containers		erly labelled containers. Store in accordance with national regulations.
Advid	ce on common storage	: Do not store v Strong oxidizi	with the following product types: ng agents
7.3 Speci	fic end use(s)		

SECTION 8: Exposure controls/personal protection

: No data available

8.1 Control parameters

Specific use(s)

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Fosaprepitant	265121-04-	TWA	200 µg/m3	Internal



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

Substance name	End Use	Exposure routes	Potential health ef- fects	Value
Disodium EDTA, di- hydrate	Workers	Inhalation	Long-term systemic effects	1,5 mg/m3
	Workers	Inhalation	Acute systemic ef- fects	3 mg/m3
	Workers	Inhalation	Long-term local ef- fects	1,5 mg/m3
	Workers	Inhalation	Acute local effects	3 mg/m3
	Consumers	Inhalation	Long-term local ef- fects	0,6 mg/m3
	Consumers	Inhalation	Acute local effects	1,2 mg/m3
	Consumers	Ingestion	Long-term systemic effects	25 mg/kg bw/day

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

Substance name	Environmental Compartment	Value
Disodium EDTA, dihydrate	Fresh water	2,5 mg/l
	Marine water	0,25 mg/l
	Sewage treatment plant	50 mg/l
	Soil	1,1 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: Safety goggles
Hand protection		
Material	:	Chemical-resistant gloves
Remarks	:	Choose gloves to protect hands against chemicals depending on the concentration and quantity of the hazardous sub- stance and specific to place of work. Breakthrough time is not determined for the product. Change gloves often! For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer. Wash hands before breaks and at the end of workday.
Skin and body protection	:	Select appropriate protective clothing based on chemical re-



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		sistance data tial.	and an assessment of the local exposure poten-					
		Skin contact must be avoided by using impervious protective clothing (gloves, aprons, boots, etc).						
Resp	iratory protection	: If adequate local exhaust ventilation is not available or expo- sure assessment demonstrates exposures outside the rec- ommended guidelines, use respiratory protection.						
Fil	lter type	: Particulates ty						

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance Colour Odour Odour Threshold	:	powder off-white odourless No data available
рН	:	No data available
Melting point/freezing point	:	No data available
Initial boiling point and boiling	:	No data available
range Flash point	:	No data available
Evaporation rate	:	No data available
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	:	No data available
Relative vapour density	:	No data available
Relative density	:	No data available
Solubility(ies) Water solubility Partition coefficient: n- octanol/water	:	No data available No data available
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
Viscosity Viscosity, dynamic	:	No data available
Viscosity, kinematic	:	No data available



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	osive properties zing properties	: Not explosi : The substa	ve nce or mixture is not classified as oxidizing.
	information mability (liquids)	: No data ava	ailable
Moleo	cular weight	: No data ava	ailable
Partic	cle size	: No data ava	ailable

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

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

Acute toxicity

Harmful if swallowed.

Product:

Acute oral toxicity

: Acute toxicity estimate: 1.454 mg/kg Method: Calculation method



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	Acute i	nhalation toxicity	:	Acute toxicity esti Exposure time: 4 Test atmosphere: Method: Calculation	h dust/mist
	Compo	onents:			
	Fosap	repitant:			
	Acute of	oral toxicity	:	LD50 (Rat, female	e): > 500 mg/kg
				LD50 (Mouse, fen	nale): > 500 mg/kg
	Disodi	um EDTA, dihydrate:			
	Acute of	oral toxicity	:	LD50 (Rat): 2.800) mg/kg
	Acute i	nhalation toxicity	:	LC50 (Rat, male): Exposure time: 6 Test atmosphere: Method: OECD Te	h dust/mist
		orrosion/irritation			
	Compo	onents:			
	Fosap Specie Result	repitant: s	:	Rabbit Skin irritation	
		s eye damage/eye irri s serious eye irritation.	tati	on	
	Compo	onents:			
	Fosap	repitant:			
	Specie Result	S	:	Bovine cornea Eye irritation	
	Disodi	um EDTA, dihydrate:			
	Specie Result	-	:	Rabbit No eye irritation	
	Respir	atory or skin sensitis	atio	n	
		ensitisation ssified based on availa	ble	information.	
	-	atory sensitisation ssified based on availa	ble	information.	
	Compo	onents:			
	Disodi	um EDTA, dihydrate:			



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	Test Ty Exposu Specie Methoo Result Remar	re routes s i		Maximisation Tes Skin contact Guinea pig OECD Test Guide negative Based on data fro	
		cell mutagenicity ssified based on availa	ble	information.	
	Compo	onents:			
	-	repitant: oxicity in vitro	:		o mammalian cell gene mutation test an lymphoblastoid cells
					chromatid exchange assay nese hamster ovary cells
				Test Type: in vitro Test system: rat h Result: negative	
	Genoto	oxicity in vivo	:	Test Type: In vivo Species: Mouse Cell type: Bone m Result: negative	micronucleus test arrow
	Disodi	um EDTA, dihydrate:			
		oxicity in vitro	:	Result: negative	ial reverse mutation assay (AMES) on data from similar materials
				Test Type: In vitro Result: negative	mammalian cell gene mutation test
				Result: negative	nosome aberration test in vitro
	Genoto	oxicity in vivo	:	Test Type: Mamm cytogenetic assay Species: Mouse Application Route Method: OECD To Result: negative	: Ingestion

Carcinogenicity

Not classified based on available information.



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	Components:				
	Fosap	repitant:			
		es ation Route ure time	:	Rat, female Oral 2 Years	
	Target Remai	: Organs rks	:	50 mg/kg body we Liver Benign tumor(s)	eight
	Expos	es ation Route ure time : Organs	:	Rat, male and ferr Oral 2 Years 250 mg/kg body w Liver, Thyroid	
	U	ogenicity - Assess-	:	•	e does not support classification as a car-
	Disod Specie Applica	ation Route	:	Rat Ingestion	
	Expos Result Remai		:	103 weeks negative Based on data fro	m similar materials
	•	ductive toxicity assified based on availa	ble	information.	
	<u>Comp</u>	onents:			
	Fosap	repitant:			
	Effects	s on fertility	:	Species: Rat, mal	y/early embryonic development e and female 2.000 mg/kg body weight
	Effects ment	s on foetal develop-	:	Species: Rat, fem General Toxicity M Result: negative	ale /aternal: NOAEL: 2.000 mg/kg body weight
				Species: Rabbit, f General Toxicity N Result: negative	emale /laternal: NOAEL: 25 mg/kg body weight
		ium EDTA, dihydrate: s on fertility	:	Species: Rat Application Route Result: negative	eneration reproduction toxicity study : Ingestion on data from similar materials
	Effects	s on foetal develop-	:	Test Type: Embry	o-foetal development



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ment Species: Rat Application Route: Ingestion Result: negative									
	- single exposure assified based on av	ailable information.							
STOT	- repeated exposu	re							
May c	ause damage to org	ans through prolonge	d or repeated exposure.						
<u>Comp</u>	onents:								
Fosap	prepitant:								
	ure routes t Organs sment		organs, Prostate amage to organs through prolonged or repeate						
Disod	ium EDTA, dihydra	te:							
	ure routes	: inhalation (du							
Target Asses	t Organs sment		 Respiratory Tract May cause damage to organs through prolonged or repeated exposure. 						
Repea	ated dose toxicity								
<u>Comp</u>	onents:								
-	prepitant:								
Specie NOAE		: Rat, male and : 2.000 mg/kg	d female						
	ation Route	: Oral							
Expos	ure time	: 6 Months							
Target	t Organs	: Liver, Thyroid	1						
Specie		: Dog							
LOAE		: 50 mg/kg							
	ation Route ure time	: Oral : 9 Months							
	t Organs	: Testis							
Specie	es	: Dog							
NOAE	L	: 32 mg/kg							
	ation Route	: Oral							
Rema	ure time rks	: 1 yr : No significan	t adverse effects were reported						
Specie		: Rat							
NOAE		: 4 mg/kg							
	ation Route ure time	: Intravenous : 5 Weeks							
Rema			t adverse effects were reported						
Specie		: Dog							



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App Exp	NOAEL Application Route Exposure time Remarks		10 mg/kg Intravenous 5 Weeks No significant adverse effects were reported				
Dis	odium EDTA, dihydrate:						
	cies	:	Rat				
NO		:	500 mg/kg				
	lication Route osure time	÷	Ingestion 13 Weeks				
			Det				
Spe LOA	cies \EL	:	Rat 0,03 mg/l				
Арр	lication Route	:	inhalation (dust/m	ist/fume)			
Exp Met	osure time	:	4 Weeks OECD Test Guide	aline 412			
Wiet	nou	•					
Asp	piration toxicity						
Not	classified based on availa	able	information.				
Exp	erience with human exp	osi	ire				
<u>Cor</u>	nponents:						
Fos	aprepitant:						
	estion	:	Symptoms: hiccu tion, Headache, a	os, Fatigue, liver function change, constipa- norexia			
SECTIC	N 12: Ecological infor	ma	tion				
	-						
12.1 Tox	licity						
<u>Cor</u>	nponents:						
Fos	aprepitant:						
Тох	icity to fish	:		s promelas (fathead minnow)): > 0,462 mg/l			
			Exposure time: 96 Method: OECD T				
				city at the limit of solubility			
				m similar materials			
Тох	icity to daphnia and other	:	EC50 (Daphnia m	nagna (Water flea)): > 0,345 mg/l			
	atic invertebrates	-	Exposure time: 48				

 Toxicity to algae/aquatic plants
 :
 NOEC (Pseudokirchneriella subcapitata (green algae)): 0,184 mg/l

 Exposure time: 72 h
 Method: OECD Test Guideline 201 Remarks: No toxicity at the limit of solubility Based on data from similar materials

Method: OECD Test Guideline 202

Remarks: No toxicity at the limit of solubility



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			0,184 mg/l Exposure time: 72 Method: OECD To Remarks: No toxid	
Toxic icity)	city to fish (Chronic tox-	:	Method: OECD Te	2 Days Iles promelas (fathead minnow)
aqua	city to daphnia and other ttic invertebrates (Chron- kicity)	:	Method: OECD Te	Days magna (Water flea)
M-Fa toxic	actor (Chronic aquatic ity)	:	1	
Diso	dium EDTA, dihydrate:			
	city to fish	:	Exposure time: 96	acrochirus (Bluegill sunfish)): > 100 mg/l 5 h on data from similar materials
	city to daphnia and other atic invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: DIN 3847	
Toxic plant	city to algae/aquatic ts	:	mg/l Exposure time: 72 Method: OECD Te	
			mg/l Exposure time: 72 Method: OECD To	
Toxi	city to microorganisms	:	EC10 (activated s Exposure time: 30 Method: OECD Te	
aqua	city to daphnia and other atic invertebrates (Chron- kicity)	:	NOEC: 25 mg/l Exposure time: 21 Species: Daphnia	d magna (Water flea)



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12.2 Per	sistence and degradabi	lity		
<u>Con</u>	<u>nponents:</u>			
	aprepitant: legradability	:	Result: not rapidly Method: OECD T	y degradable est Guideline 314
Disc	odium EDTA, dihydrate:			
Bioc	Biodegradability		Result: Not readily biodegradable. Biodegradation: 2 % Exposure time: 28 d Method: OECD Test Guideline 301D	
12.3 Bio	accumulative potential			
Con	<u>nponents:</u>			
	aprepitant:			
Bioa	accumulation	:	Bioconcentration Method: OECD T	s macrochirus (Bluegill sunfish) factor (BCF): 50,1 est Guideline 305 on data from similar materials
Disc	odium EDTA, dihydrate:			
Bioa	locumulation	:	Bioconcentration	s macrochirus (Bluegill sunfish) factor (BCF): < 500 on data from similar materials
	ition coefficient: n- nol/water	:	log Pow: -4,3	
	bility in soil data available			
12.5 Res	ults of PBT and vPvB a	sse	ssment	
Pro	duct:			
Ass	essment	:	to be either persis	hixture contains no components considered stent, bioaccumulative and toxic (PBT), or nd very bioaccumulative (vPvB) at levels of
12.6 Oth	er adverse effects			
Pro	duct:			
End tial	ocrine disrupting poten-	:	ered to have endo REACH Article 57	ixture does not contain components consid- ocrine disrupting properties according to 7(f) or Commission Delegated regulation or Commission Regulation (EU) 2018/605 at higher.



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SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product	 Dispose of in accordance with local regulations. According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.
Contaminated packaging	Do not dispose of waste into sewer. 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

14.1 UN number				
ADN	:	UN 3077		
ADR	:	UN 3077		
RID	:	UN 3077		
IMDG	:	UN 3077		
ΙΑΤΑ	:	UN 3077		
14.2 UN proper shipping name				
ADN	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Fosaprepitant)		
ADR	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Fosaprepitant)		
RID	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Fosaprepitant)		
IMDG	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Fosaprepitant)		
ΙΑΤΑ	:	Environmentally hazardous substance, solid, n.o.s. (Fosaprepitant)		
14.3 Transport hazard class(es)				
		Class	Subsidiary risks	
ADN	:	9		
ADR	:	9		
RID	:	9		
IMDG	:	9		
ΙΑΤΑ	:	9		



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14.4	Packin	g group			
		g group cation Code Identification Number	:	III M7 90 9	
	Hazard Labels	g group cation Code Identification Number restriction code	:	III M7 90 9 (-)	
		g group cation Code Identification Number	:	III M7 90 9	
	IMDG Packing Labels EmS C		:	III 9 F-A, S-F	
	aircraft	g instruction (cargo g instruction (LQ)	:	956 Y956 III Miscellaneous	
	IATA (F Packing ger airc Packing	Passenger) g instruction (passen- g instruction (LQ) g group	:	956 Y956 III Miscellaneous	
14.5	Enviro	nmental hazards			
	ADN Enviror ADR	mentally hazardous	:	yes	
	RID	mentally hazardous	:	yes	
		pollutant	:	yes	
	Enviror	Passenger) Imentally hazardous	:	yes	
	IATA ((Enviror	Cargo) Imentally hazardous	:	yes	



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14.6 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.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Remarks

: Not applicable for product as supplied.

narks

SECTION 15: Regulatory information

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

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

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

15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information Other information Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines. **Full text of H-Statements** H302 Harmful if swallowed. H315 Causes skin irritation. H319 Causes serious eye irritation. 1 H332 Harmful if inhaled. • H373 May cause damage to organs through prolonged or repeated exposure. May cause damage to organs through prolonged or repeated H373 exposure if swallowed. H410 Very toxic to aquatic life with long lasting effects. 2 Full text of other abbreviations Acute Tox. Acute toxicity Long-term (chronic) aquatic hazard Aquatic Chronic 1

- Eye Irrit.:Eye irritationSkin Irrit.:Skin irritation
- STOT RE : Specific target organ toxicity repeated exposure

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



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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 compile the Safety Data Sheet	:		data from raw material SDSs, OECD sults and European Chemicals Agen- u/	
Classification of the mixture: Classification procedure:				
Acute Tox. 4	H3(02	Calculation method	
Skin Irrit. 2	H3 ⁻	15	Calculation method	
Eye Irrit. 2	H3 ⁻	19	Calculation method	
STOT RE 2	H3	73	Calculation method	
Aquatic Chronic 1	H4	10	Calculation method	

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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