

Vers 3.4	sion	Revision Date: 01.10.2020		S Number: 21-00016	Date of last issue: 23.03.2020 Date of first issue: 23.01.2015
1. P	RODUC	T AND COMPANY IDI	ENT	IFICATION	
Product name		:	Mirtazapine Disintegrating Formulation		
	Manufa	acturer or supplier's c	letai	ils	
Company		:	Organon & Co.		
Address		:	30 Hudson Street, 33nd floor Jersey City, New Jersey, U.S.A 07302		
Telephone		:	551-430-6000		
	Emerge	ency telephone number	r:	215-631-6999	
	E-mail	address	:	EHSSTEWARD®	⊉organon.com
		mended use of the cl mended use		ical and restriction	ons on use

2. HAZARDS IDENTIFICATION

Manufacture, Storage and Import of Hazardous Chemicals Rules 1989

Classification

Not classified as hazardous according to criteria laid down in Part I of Schedule-1.

GHS Classification

Acute toxicity (Oral)	:	Category 4
Reproductive toxicity	:	Category 2
Specific target organ toxicity - repeated exposure (Oral)	:	Category 2 (Nervous system)
Short-term (acute) aquatic hazard	:	Category 3
Long-term (chronic) aquatic hazard	:	Category 3
GHS label elements		
Hazard pictograms	:	
Signal word	:	Warning
Hazard statements	:	H302 Harmful if swallowed. H361fd Suspected of damaging fertility. Suspected of damag- ing the unborn child.



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		prolonged or re	se damage to organs (Nervous system) through epeated exposure if swallowed. to aquatic life with long lasting effects.
Precau	utionary statements	P260 Do not b P264 Wash sk P270 Do not e P273 Avoid rel	in thoroughly after handling. at, drink or smoke when using this product. lease to the environment. btective gloves/ protective clothing/ eye protec-
		Rinse mouth.	- P330 IF SWALLOWED: Get medical help. ed or concerned, get medical advice.
		Storage: P405 Store loc	ked up.
		Disposal: P501 Dispose disposal plant.	of contents/ container to an approved waste

Other hazards which do not result in classification

Dust contact with the eyes can lead to mechanical irritation. Contact with dust can cause mechanical irritation or drying of the skin. May form explosive dust-air mixture during processing, handling or other means.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
(+/-)-1,2,3,4,10,14b-Hexahydro-2- methylpyrazino[2,1-a]pyrido[2,3-c][2]benzazepine	85650-52-8	>= 20 - < 25
Citric acid	77-92-9	>= 1 - < 5
Cellulose	9004-34-6	>= 1 - < 5
Magnesium stearate	557-04-0	>= 1 - < 5

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.



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lf sw Mos and dela	ase of eye contact vallowed t important symptoms effects, both acute and yed	Ge Wa Th : If i Ge : If s Ge Rin Ne : Ha Su Un Ma Co the Du	et medical attent ash clothing bef noroughly clean in eyes, rinse we et medical attent swallowed, DO I et medical attent nse mouth thorce ever give anythir armful if swallow uspected of dam aborn child. ay cause damag posure if swallo ontact with dust e skin. ust contact with	ore reuse. shoes before reuse. ell with water. tion if irritation develops and persists. NOT induce vomiting. tion. bughly with water. ng by mouth to an unconscious person. red. laging fertility. Suspected of damaging the ge to organs through prolonged or repeated				
Notes to physician		an wł	 and use the recommended personal protective equipment when the potential for exposure exists (see section 8). Treat symptomatically and supportively. 					
	IGHTING MEASURES							
Uns	able extinguishing media uitable extinguishing	Ale Ca Dr	ater spray cohol-resistant f arbon dioxide (C y chemical one known.					
mec Spe fight	cific hazards during fire-	co po	ncentrations, ar tential dust expl	dust; fine dust dispersed in air in sufficient ad in the presence of an ignition source is a losion hazard. Joustion products may be a hazard to health.				
Haz ucts	ardous combustion prod-	Ni	arbon oxides trogen oxides (N etal oxides	NOx)				
ods	cific extinguishing meth- cial protective equipment irefighters	cu Us Re so Ev : In	Imstances and the water spray to be water spray	measures that are appropriate to local cir- he surrounding environment. cool unopened containers. ged containers from fire area if it is safe to do , wear self-contained breathing apparatus. ective equipment.				
	ENTAL RELEASE MEA		· ·	· ·				

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- :	: I	Use personal protective equipment.
tive equipment and emer-	I	Follow safe handling advice (see section 7) and personal pro-
gency procedures	t	tective equipment recommendations (see section 8).

SAFETY DATA SHEET



Mirtazapine Disintegrating Formulation

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Envi	ronmental precautions	:	Retain and dispos	akage or spillage if safe to do so. se of contaminated wash water. should be advised if significant spillages
	nods and materials for ainment and cleaning up	:	tainer for disposal Avoid dispersal of with compressed Dust deposits sho es, as these may leased into the att Local or national posal of this mate employed in the c mine which regula Sections 13 and 1	f dust in the air (i.e., clearing dust surfaces
7. HAND	LING AND STORAGE			
Tech	nnical measures	:	causing an explose Provide adequate	precautions, such as electrical grounding
	al/Total ventilation ce on safe handling	::	Wash skin thorou Handle in accorda practice, based or sessment Minimize dust ger Keep container cl Keep away from h Take precautiona Do not eat, drink of	equate ventilation. ust.
Con	ditions for safe storage	:	Keep in properly I Store locked up.	abelled containers.
Mate	erials to avoid	:		the following product types:

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type	Control parame-	Basis
		(Form of	ters / Permissible	



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			exposure)	concentration				
Hexal	1,2,3,4,10,14b- hydro-2- /lpyrazino[2,1- do[2,3-c][2]benzazepine	85650-52-8	TWA	25 μg/m3	Internal			
			Wipe limit	250 µg/100 cm ²	Internal			
Cellul	ose	9004-34-6	TWA	10 mg/m3	ACGIH			
Magn	esium stearate	557-04-0	TWA (Inhal- able particu- late matter)	10 mg/m3	ACGIH			
			TWA (Res- pirable par- ticulate mat- ter)	3 mg/m3	ACGIH			
∟ngir	neering measures	Minimize wo Apply measu Ensure that o dust collector signed in a m	rkplace exposure ires to prevent du dust-handling sys rs, vessels, and p nanner to preven		ust ducts, nt) are de- into the wor			
Perso	onal protective equipm	nent						
Respi Fil	ter type protection	: If adequate lo sure assessr	nent demonstrate juidelines, use re	tilation is not availab es exposures outside espiratory protection.	e the rec-			
Ma	aterial	: Chemical-res	sistant gloves					
Re	emarks	on the conce stance and s determined for applications, chemicals of	ntration and qua pecific to place c or the product. C we recommend the aforemention acturer. Wash ha	ds against chemical ntity of the hazardou of work. Breakthroug hange gloves often! clarifying the resista ned protective gloves nds before breaks a	is sub- h time is not For special nce to s with the			
Eye p	rotection		owing personal p	protective equipment	:			
Skin a	and body protection	 Select appropriate protective clothing based on chemical sistance data and an assessment of the local exposure petial. Skin contact must be avoided by using impervious protection clothing (gloves, aprons, boots, etc). 						
Hygie	ne measures	: If exposure to flushing syste place.	If exposure to chemical is likely during typical use, provide eye flushing systems and safety showers close to the working					

9. PHYSICAL AND CHEMICAL PROPERTIES



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	Appear	ance	:	powder	
	Colour		:	No data available)
	Odour		:	No data available)
	Odour ⁻	Threshold	:	No data available)
	рН		:	No data available)
	Melting	point/freezing point	:	No data available	
	Initial be range	oiling point and boiling	:	No data available	
	Flash p	oint	:	No data available)
	Evapora	ation rate	:	No data available	9
	Flamma	ability (solid, gas)	:	May form explosi dling or other me	ve dust-air mixture during processing, han- ans.
	Flamma	ability (liquids)	:	No data available	
		explosion limit / Upper bility limit	:	No data available	
		explosion limit / Lower bility limit	:	No data available	
	Vapour	pressure	:	No data available)
	Relative	e vapour density	:	No data available	9
	Density	,	:	No data available	
	Solubili Wat	ty(ies) er solubility	:	No data available	9
	Partition octanol	n coefficient: n-	:	No data available	9
		nition temperature	:	No data available	9
	Decom	position temperature	:	No data available	
	Viscosi Visc	ty osity, dynamic	:	No data available)
	Visc	osity, kinematic	:	No data available)
	Explosi	ve properties	:	Not explosive	
	Oxidizir	ng properties	:	The substance of	r mixture is not classified as oxidizing.

SAFETY DATA SHEET



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Molecu	lar weight	:	No data availal	ble
Particle	size	:	No data availal	ble
0. STABILI		(
	ity al stability lity of hazardous reac-	:	Stable under n May form explo dling or other n	as a reactivity hazard. ormal conditions. osive dust-air mixture during processing, han- neans. strong oxidizing agents.
Conditio	ons to avoid	:	Heat, flames an Avoid dust forn	
	atible materials ous decomposition s	:	Oxidizing agen No hazardous	ts decomposition products are known.
1. TOXICO		ΓΙΟΝ		
Informa exposu	tion on likely routes of re	:	Inhalation Skin contact Ingestion Eye contact	
Acute t Harmfu	oxicity I if swallowed.			
Produc Acute o	: <u>t:</u> ral toxicity	:	Acute toxicity es Method: Calcula	stimate: 1,588 mg/kg ation method
<u>Compo</u>	nents:			
	2,3,4,10,14b-Hexahyd ral toxicity		-methylpyrazin LD50 (Rat): 320	o [2,1-a]pyrido[2,3-c][2]benzazepine:) - 490 mg/kg
Citric a	cid:			
	ral toxicity	:	LD50 (Mouse):	5,400 mg/kg
Acute d	ermal toxicity	:		,000 mg/kg Test Guideline 402 ne substance or mixture has no acute dermal
Cellulo	se:			
	ral toxicity	:	LD50 (Rat): > 5	,000 mg/kg
Acute ir	nhalation toxicity	:	LC50 (Rat): > 5 Exposure time: Test atmospher	4 h
			LD50 (Rabbit):	



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Magn	osium stoarato:						
-	esium stearate: oral toxicity		: > 2,000 mg/kg				
			ECD Test Guideline 423 t: The substance or mixture has no acute oral to				
		icity					
		Remarks: E	ased on data from similar materials				
Acute dermal toxicity			LD50 (Rabbit): > 2,000 mg/kg Remarks: Based on data from similar materials				
Skin	corrosion/irritation						
Not cl	assified based on ava	ailable information.					
<u>Com</u>	oonents:						
Citric	acid:						
Speci		: Rabbit					
Metho			Guideline 404				
Resu	t	: No skin irrit	ation				
Magn	esium stearate:						
Speci	es	: Rabbit					
Resu		: No skin irrit					
Rema	irks	: Based on d	ata from similar materials				
Serio	us eye damage/eye	irritation					
Not cl	assified based on ava	ailable information.					
<u>Com</u>	oonents:						
Citric	acid:						
Speci		: Rabbit					
Metho			Guideline 405				
Resu	t	: Irritation to	eyes, reversing within 21 days				
Magn	esium stearate:						
Speci		: Rabbit					
Resu		: No eye irrit					
Rema	ırks	: Based on d	ata from similar materials				
Resp	iratory or skin sensi	tisation					
Skin	sensitisation						
Not cl	assified based on ava	ailable information.					
Resp	iratory sensitisation						

Components:

Magnesium stearate:



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Test Type Exposure routes Species Method Result Remarks	: negative	
	nicity d on available information.	
<u>Components:</u>		
(+/-)-1,2,3,4,10,14b Genotoxicity in vitro		azino[2,1-a]pyrido[2,3-c][2]benzazepine: Bacterial reverse mutation assay (AMES) ative
		In vitro mammalian cell gene mutation test n: Chinese hamster lung cells ative
		unscheduled DNA synthesis assay n: mammalian cells ative
		sister chromatid exchange assay n: mammalian cells ative
Genotoxicity in vivo	Species: Ra Cell type: B	one marrow Route: Oral
Citric acid:		
Genotoxicity in vitro	c : Test Type: Result: neg	Bacterial reverse mutation assay (AMES) ative
	Test Type: Result: pos	in vitro micronucleus test itive
	Test Type: Result: neg	Bacterial reverse mutation assay (AMES) ative
Genotoxicity in vivo	cytogenetic Species: Ra	Route: Ingestion
Cellulose:		
Genotoxicity in vitro	b : Test Type: Result: neg	Bacterial reverse mutation assay (AMES) ative



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Geno	toxicity in vivo	Result: nega	n vitro mammalian cell gene mutation test ative Aammalian erythrocyte micronucleus test (in vivo			
		Species: Mc Application I	cytogenetic assay) Species: Mouse Application Route: Ingestion Result: negative			
Magr	nesium stearate:					
Geno	toxicity in vitro	Result: nega	n vitro mammalian cell gene mutation test ative ased on data from similar materials			
		Method: OE Result: nega	Chromosome aberration test in vitro CD Test Guideline 473 ative ased on data from similar materials			
		Result: nega	Bacterial reverse mutation assay (AMES) ative ased on data from similar materials			

Carcinogenicity

Not classified based on available information.

Components:

Species Application Route Exposure time LOAEL Result Target Organs	:	Mouse Oral 18 month(s) 200 mg/kg body weight equivocal Liver
Species Application Route Exposure time LOAEL Result Target Organs	:	Rat Oral 2 Years 20 mg/kg body weight equivocal Liver, Thyroid
Cellulose:		

Species	:	Rat
Application Route	:	Ingestion
Exposure time	:	72 weeks
Result	:	negative

Reproductive toxicity

Suspected of damaging fertility. Suspected of damaging the unborn child.



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<u>Com</u>	oonents:		
(+/-)- 1	l,2,3,4,10,14b-Hexahy	dro-2-methylpyr	azino[2,1-a]pyrido[2,3-c][2]benzazepine:
	s on fertility	: Test Type: Species: Ra Application Fertility: LO Symptoms: tions Result: Anii	Fertility/early embryonic development
Effect	s on foetal develop-	Species: Ra Application Developme Result: Em spring were Test Type: Species: Ra Application Developme	Route: Oral ntal Toxicity: LOAEL: 100 mg/kg body weight bryotoxic effects and adverse effects on the off- e detected., No teratogenic effects Development
Repro sessn	oductive toxicity - As- nent	fertility, bas	ence of adverse effects on sexual function and ed on animal experiments., Some evidence of ects on development, based on animal experi-
Citric	acid:		
Effect ment	s on foetal develop-	Species: Ra	Route: Ingestion
Cellu	lose:		
Effect	s on fertility	Species: Ra	Route: Ingestion
Effect ment	s on foetal develop-	Species: Ra	Route: Ingestion
Magn	esium stearate:		
-	s on fertility	reproductio Species: Ra	Combined repeated dose toxicity study with the n/developmental toxicity screening test at Route: Ingestion



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Effect ment	s on foetal develop-	Result: negative Remarks: Based : Test Type: Emb Species: Rat Application Rou Result: negative	d on data from similar materials oryo-foetal development te: Ingestion

STOT - single exposure

Not classified based on available information.

STOT - repeated exposure

May cause damage to organs (Nervous system) through prolonged or repeated exposure if swallowed.

Components:

(+/-)-1,2,3,4,10,14b-Hexahydro-2-methylpyrazino[2,1-a]pyrido[2,3-c][2]benzazepine:

Exposure routes	: Ingestion
Target Organs	: Nervous system
Assessment	: May cause damage to organs through prolonged or repeated
	exposure.

Repeated dose toxicity

Components:

(+/-)-1,2,3,4,10,14b-Hexahydro-2-methylpyrazino[2,1-a]pyrido[2,3-c][2]benzazepine:

Species	:	Rat
LOAEL	:	120 mg/kg
Application Route	:	Oral
Exposure time	:	13 Weeks
Target Organs	:	Nervous system
Species	:	Dog
LOAEL	:	15 mg/kg
Application Route	:	Oral
Exposure time	:	52 Weeks
Target Organs	÷	Nervous system
Symptoms	:	Tremors
Species	:	Dog
LÖAEL	:	20 mg/kg
Application Route	:	Oral
Exposure time	:	13 Weeks
Target Organs	:	Nervous system, Testis
Symptoms	:	Tremors
Citric acid:		
Species		Rat
NOAEL	:	4,000 mg/kg
LOAEL	:	
LUAEL	·	8,000 mg/kg



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	cation Route sure time	:	Ingestion 10 Days	
	es	:	Rat >= 9,000 mg/kg Ingestion 90 Days	
Speci NOAE Applic	EL cation Route sure time	:	Rat > 100 mg/kg Ingestion 90 Days Based on data fro	om similar materials
Not c	ration toxicity lassified based on availa			
-	rience with human exp	osi	ire	
<u>Com</u>	oonents:			
(+/-) -′ Inges		lro-2		(2,1-a]pyrido[2,3-c][2]benzazepine: siness, constipation, dry mouth, asthenia, entation
ECOL	OGICAL INFORMATIO	N		
Ecoto	oxicity			
Com	oonents:			
(+/-)-′		lro-2		
	ity to daphnia and other ic invertebrates	:	EC50 (Daphnia m Exposure time: 48	nagna (Water flea)): 19.5 mg/l 3 h
Toxic plants	ity to algae/aquatic	:	EC50 (Pseudokir mg/l Exposure time: 72 Method: OECD To	
			NOEC (Pseudoki mg/l Exposure time: 72 Method: OECD To	
Toxic	ity to microorganisms	:	EC50 (Natural mie Exposure time: 3	croorganism): > 1,000 mg/l h



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				Test Type: Respir Method: OECD Te		
				NOEC (Natural m Exposure time: 3 Test Type: Respir Method: OECD Te	ation inhibition	
	Toxicity to fish (Chronic tox- icity)		:	NOEC: 3.6 mg/l Exposure time: 31 d Species: Pimephales promelas (fathead minnow) Method: OECD Test Guideline 210		
a		to daphnia and other invertebrates (Chron- y)	:	NOEC: 0.32 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea) Method: OECD Test Guideline 211		
c	itric a	cid:				
		to fish	:	LC50 (Pimephales Exposure time: 96	s promelas (fathead minnow)): > 100 mg/l i h	
		to daphnia and other invertebrates	:	EC50 (Daphnia m Exposure time: 24	agna (Water flea)): 1,535 mg/l · h	
C	ellulo	SO.				
		to fish	:	Exposure time: 48	pes (Japanese medaka)): > 100 mg/l h on data from similar materials	
м	lagnes	sium stearate:				
	-	to fish	:	Exposure time: 48 Method: DIN 3841	2	
				Remarks: Based (on data from similar materials	
		to daphnia and other invertebrates	:	Exposure time: 47	agna (Water flea)): > 1 mg/l ' h /ater Accommodated Fraction	
					67/548/EEC, Annex V, C.2. on data from similar materials imit of solubility	
	oxicity lants	to algae/aquatic	:	mg/l Exposure time: 72 Test substance: V Method: OECD Te	Vater Accommodated Fraction est Guideline 201 on data from similar materials	
				NOELR(Pseudol mg/l	kirchneriella subcapitata (green algae)): > 1	



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				Method: OECD T	Vater Accommodated Fraction			
Т	Toxicity to microorganisms			 EC10 (Pseudomonas putida): > 100 mg/l Exposure time: 16 h Test substance: Water Accommodated Fraction Remarks: Based on data from similar materials 				
F	Persist							
<u>c</u>	Components:							
C	Citric a	cid:						
E	Biodegı	radability	:	Result: Readily b Biodegradation: Exposure time: 24 Method: OECD T	97 %			
c	Cellulo	se:						
E	Biodegi	radability	:	Result: Readily b	odegradable.			
Ν	Magnesium stearate:							
E	Biodegı	radability	:	Result: Not biode Remarks: Based	gradable on data from similar materials			
E	Bioaccumulative potential Components:							
<u>c</u>								
(*	(+/-)-1,2,3,4,10,14b-Hexahydro-2-methylpyrazino[2,1-a]pyrido[2,3-c][2]benzazepine							
E	Зіоасси	umulation	:	Species: Oncorhy Bioconcentration Method: OECD T				
	Partition octanol	n coefficient: n- /water	:	log Pow: 2.78				
c	Citric a	cid:						
	Partition octanol	n coefficient: n- /water	:	log Pow: -1.72				
F	-	sium stearate: n coefficient: n- /water	:	log Pow: > 4				



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Mobi	lity in soil			
<u>Com</u>	ponents:			
Distri	1,2,3,4,10,14b-Hexah bution among environ- al compartments		no[2,1-a]pyrido[2,3-c][2]benzazepine:	
	r adverse effects ata available			
3. DISPC	SAL CONSIDERATIO	ONS		
Dispo	osal methods			
	e from residues aminated packaging		ccordance with local regulations. ers should be taken to an approved waste han-	
		dling site for re	cycling or disposal.	
I. TRAN	SPORT INFORMATIC	dling site for re If not otherwise	cycling or disposal.	
		dling site for re If not otherwise	cycling or disposal.	
Interi UNR ⁻	national Regulations	dling site for re If not otherwise	cycling or disposal.	
Interi UNR ⁻ Not re IATA	national Regulations	dling site for re If not otherwise	cycling or disposal.	
Intern UNR Not re IATA Not re	national Regulations FDG egulated as a dangero -DGR	dling site for re If not otherwise DN Dus good	cycling or disposal.	
Intern UNR Not re IATA Not re Not re Trans	national Regulations FDG egulated as a dangero -DGR egulated as a dangero G-Code egulated as a dangero	dling site for re If not otherwise DN Dus good Dus good Dus good ng to IMO instrumen	cycling or disposal. e specified: Dispose of as unused product.	
Intern UNR Not re IATA Not re Not re Not a	national Regulations FDG egulated as a dangero -DGR egulated as a dangero 6-Code egulated as a dangero sport in bulk accordi	dling site for re If not otherwise DN Dus good Dus good	cycling or disposal. e specified: Dispose of as unused product.	
Intern UNR Not re IATA Not re IMDG Not re Trans Not a	national Regulations TDG egulated as a dangero -DGR egulated as a dangero G-Code egulated as a dangero sport in bulk accordi pplicable for product a LATORY INFORMAT	dling site for re If not otherwise ON ous good ous good ous good ng to IMO instrumen as supplied. TON	cycling or disposal. e specified: Dispose of as unused product.	
Intern UNR Not re IATA Not re IMDG Not re Trans Not a 5. REGU Safet ture	national Regulations FDG egulated as a dangero -DGR egulated as a dangero G-Code egulated as a dangero sport in bulk accordi pplicable for product a LATORY INFORMAT y, health and envirou components of this p	dling site for re If not otherwise ON ous good ous good ous good ng to IMO instrument as supplied. TION nmental regulations/	ts legislation specific for the substance or mix in the following inventories:	
Intern UNR Not re IATA Not re IMDG Not re Trans Not a 5. REGU Safet ture	national Regulations FDG egulated as a dangero -DGR egulated as a dangero G-Code egulated as a dangero sport in bulk accordi pplicable for product a LATORY INFORMAT y, health and envirou components of this p	dling site for re If not otherwise ON ous good ous good ous good ng to IMO instrumen as supplied. TION nmental regulations/	ts	

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-



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	Date format		:	dd.mm.yyyy		
	Full text of other abbreviatio					
	ACGIH :		:	USA. ACGIH Threshold Limit Values (TLV)		
ACGIH / TWA :		:	8-hour, time-weighted average			

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; 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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