

Version 4.3	Revision Date: 23.03.2020		DS Number: 066-00016	Date of last issue: 13.09.2019 Date of first issue: 15.10.2014
SECTIO	ON 1: Identification of	the	substance/mixt	ure and of the company/undertaking
<b>1.1 Product identifier</b> Trade name		:	Alendronate / Vita	min D Formulation
1.2 Rele	evant identified uses of the	he s	substance or mixtu	ure and uses advised against
	e of the Sub- nce/Mixture	:	Pharmaceutical	
1.3 Deta	ails of the supplier of the	saf	ety data sheet	
	mpany	:	Organon & Co. 30 Hudson Street	, 33nd floor y, New Jersey, U.S.A
Tel	ephone	:	551-430-6000	
	nail address of person ponsible for the SDS	:	EHSSTEWARD@	organon.com
1.4 Eme	ergency telephone numb	er		

215-631-6999

#### **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

#### Classification (REGULATION (EC) No 1272/2008)

Acute toxicity, Category 4 Skin irritation, Category 2 Serious eye damage, Category 1 Reproductive toxicity, Category 2 Specific target organ toxicity - single exposure, Category 3 Specific target organ toxicity - repeated exposure, Category 2 H302: Harmful if swallowed.H315: Causes skin irritation.H318: Causes serious eye damage.H361d: Suspected of damaging the unborn child.H335: May cause respiratory irritation.

H373: May cause damage to organs through prolonged or repeated exposure.

#### 2.2 Label elements

#### Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms

Signal word



Hazard statements : H302

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- H302 Harmful if swallowed.
- H315 Causes skin irritation.
- H318 Causes serious eye damage.
- H335 May cause respiratory irritation.
- H361d Suspected of damaging the unborn child.



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		H373 May cause repeated exposure	e damage to organs through prolonged or e.
Precautionary statements		Prevention:	
		P260 Do not bre	ecial instructions before use. eathe dust. ective gloves/ protective clothing/ eye protec- on.
		air and keep comf CENTER/ doctor i P305 + P351 + P3 with water for seve sent and easy to c POISON CENTER	338 + P310 IF IN EYES: Rinse cautiously eral minutes. Remove contact lenses, if pre- do. Continue rinsing. Immediately call a

Hazardous components which must be listed on the label: Alendronate

#### 2.3 Other hazards

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.	Classification	Concentration
	EC-No.		(% w/w)
	Index-No.		
	Registration number		
Alendronate	121268-17-5	Acute Tox.4; H302	>= 20 - < 30
		Skin Irrit.2; H315	
		Eye Dam.1; H318	
		Repr.2; H361d	
		STOT SE3; H335	
		STOT RE2; H373	
Colecalciferol	67-97-0	Acute Tox.2; H300	>= 0,025 - <
	200-673-2	Acute Tox.2; H330	0,1
	603-180-00-4	Acute Tox.2; H310	
		STOT RE1; H372	
		Aquatic Chronic4;	
		H413	

For explanation of abbreviations see section 16.

#### **SECTION 4: First aid measures**

#### 4.1 Description of first aid measures

General advice : In the case of accident or if you feel unwell, seek medical ad-



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		vice immedia When sympt advice.	ately. oms persist or in all cases of doubt seek medical
Prote	ction of first-aiders	and use the	conders should pay attention to self-protection, recommended personal protective equipment tential for exposure exists (see section 8).
lf inha	aled	: If inhaled, re Get medical	move to fresh air. attention.
In cas	e of skin contact	for at least 1 and shoes. Get medical Wash clothir	ontact, immediately flush skin with plenty of water 5 minutes while removing contaminated clothing attention. ng before reuse. clean shoes before reuse.
In cas	e of eye contact	for at least 1 If easy to do	ontact, immediately flush eyes with plenty of wate 5 minutes. , remove contact lens, if worn. attention immediately.
lf swa	llowed	Get medical Rinse mouth	, DO NOT induce vomiting. attention. thoroughly with water. nything by mouth to an unconscious person.
4.2 Most i	mportant symptoms	s and effects, both a	acute and delayed
Risks		May cause r Suspected o	
4.3 Indica	tion of any immedia	te medical attention	n and special treatment needed
	ment		omatically 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.



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5.2	Special	hazards arising from	the	substance or mix	kture
	Specific fighting	c hazards during fire-	:	concentrations, ar potential dust exp	dust; fine dust dispersed in air in sufficient nd in the presence of an ignition source is a losion hazard. pustion products may be a hazard to health.
	Hazard ucts	ous combustion prod-	:	Carbon oxides Nitrogen oxides (N Phosphorus comp Metal oxides	
5.3	Advice	for firefighters			
	Special for firef	l protective equipment ighters	:	In the event of fire Use personal prot	e, wear self-contained breathing apparatus. ective equipment.
	Specific ods	c extinguishing meth-	:	cumstances and t Use water spray t	measures that are appropriate to local cir- he surrounding environment. o cool unopened containers. ged containers from fire area if it is safe to do

### **SECTION 6: Accidental release measures**

#### 6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions	:	Use personal protective equipment. Follow safe handling advice and personal protective equip- ment recommendations.
6.2 Environmental precautions Environmental precautions	:	
		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	<ul> <li>Sweep up or vacuum up spillage and collect in suitable container for disposal.</li> <li>Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air).</li> <li>Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration.</li> <li>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.</li> <li>Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.</li> </ul>
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	ence to other sections ons: 7, 8, 11, 12 and 13.		
SECTION	N 7: Handling and sto	orage	
7.1 Preca	utions for safe handlin	g	
Tech	nical measures	causing an ex Provide adeq	ity may accumulate and ignite suspended dust plosion. uate precautions, such as electrical grounding or inert atmospheres.
Local	/Total ventilation	: If sufficient ve ventilation.	ntilation is unavailable, use with local exhaust
	ene measures	: Do not get on Do not breath Do not swallo Do not get in Handle in acc practice, base sessment Keep containe Already sensi regarding wor Minimize dust Keep containe Keep away fre Take precauti Take care to p environment.	w.
riygk		flushing syste place. When nated clothing The effective engineering c appropriate d industrial hyg	ms and safety showers close to the working using do not eat, drink or smoke. Wash contami- before re-use. operation of a facility should include review of ontrols, proper personal protective equipment, egowning and decontamination procedures, iene monitoring, medical surveillance and the strative controls.
7.2 Condi	tions for safe storage,	including any inc	ompatibilities
	irements for storage and containers	tightly closed	erly labelled containers. Store locked up. Keep . Keep in a cool, well-ventilated place. Store in <i>v</i> ith the particular national regulations.
Advid	ce on common storage	: Do not store Strong oxidizi	with the following product types: ng agents
7.3 Speci	fic end use(s)		
Spec	ific use(s)	: No data avail	able



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#### **SECTION 8: Exposure controls/personal protection**

#### 8.1 Control parameters

#### Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Cellulose	9004-34-6	TWA OEL-RL (Respirable dust)	5 mg/m3	ZA OEL
	Further inform	nation: Recommende	ed Limit	
		TWA OEL-RL (inhalable dust)	10 mg/m3	ZA OEL
		STEL OEL-RL (Dust)	20 mg/m3	ZA OEL
Alendronate	121268-17- 5	TWA	20 µg/m3 (OEB 3)	Internal
		Wipe limit	200 µg/100 cm <sup>2</sup>	Internal
Colecalciferol	67-97-0	TWA	5 µg/m3 (OEB 4)	Internal
		Wipe limit	50 µg/100 cm²	Internal

#### 8.2 Exposure controls

#### Engineering measures

All engineering controls should be implemented by facility design and operated in accordance with GMP principles to protect products, workers, and the environment.

Containment technologies suitable for controlling compounds are required to control at source and to prevent migration of the compound to uncontrolled areas (e.g., open-face containment devices).

Minimize open handling.

#### Personal protective equipment

Eye protection	Wear safety glasses with side shields or goggles. If the work environment or activity involves dusty conditions, mists or aerosols, wear the appropriate goggles. Wear a faceshield or other full face protection if there is a potential for direct contact to the face with dusts, mists, or aerosols.	
Hand protection		
Material	Chemical-resistant gloves	
Remarks Skin and body protection	Consider double gloving. Work uniform or laboratory coat. Additional body garments should be used based upon the tas being performed (e.g., sleevelets, apron, gauntlets, disposabl suits) to avoid exposed skin surfaces. Use appropriate degowning techniques to remove potentially contaminated clothing.	е
Respiratory protection	If adequate local exhaust ventilation is not available or expo- sure assessment demonstrates exposures outside the rec- ommended guidelines, use respiratory protection.	
Filter type	Particulates type (P)	



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### **SECTION 9: Physical and chemical properties**

#### 9.1 Information on basic physical and chemical properties

3.1 mormation on basic physi	cai an	u 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 boilir	ng :	No data available
range 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 / Uppe flammability limit	ər :	No data available
Lower explosion limit / Lowe flammability limit	ər :	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 Partition coefficient: n- octanol/water Auto-ignition temperature	:	No data available Not applicable No data available
Decomposition temperature	) :	No data available
Viscosity Viscosity, kinematic	:	Not applicable
Explosive properties	:	Not explosive
Oxidizing properties	:	The substance or mixture is not classified as oxidizing.
9.2 Other information		
Flammability (liquids)	:	No data available



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Partic	ele size	: No data avail	able			
SECTION	10: Stability and	reactivity				
10.1 Reac	tivity					
Not c	lassified as a reactivit	y hazard.				
	nical stability e under normal condi	tions.				
10.3 Poss	ibility of hazardous	reactions				
Haza	rdous reactions	: May form explosive dust-air mixture during processing, h dling or other means. Can react with strong oxidizing agents.				
10.4 Conc	litions to avoid					
Cond	itions to avoid		: Heat, flames and sparks. Avoid dust formation.			
10.5 Incor	npatible materials					
Mater	rials to avoid	: Oxidizing agents				
10.6 Haza	rdous decompositic	on products				
No ha	azardous decompositi	on products are know	n.			

1.1	information on toxicological	en	ects
	Information on likely routes of exposure	:	Inhalation Skin contact Ingestion Eye contact
	Acute toxicity Harmful if swallowed.		
	Product:		
	Acute oral toxicity	:	Acute toxicity estimate: 1.965 mg/kg Method: Calculation method
	Components:		
	Alendronate:		
	Acute oral toxicity	:	LD50 (Rat): 552 - 626 mg/kg
			LD50 (Mouse): 966 - 1.280 mg/kg
	Acute inhalation toxicity	:	Remarks: No data available
	Acute dermal toxicity	:	Remarks: No data available



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	Coleca	lciferol:			
	Acute c	oral toxicity	:	LD50 (Rat, male):	35 mg/kg
	Acute in	nhalation toxicity	:	Acute toxicity esti Exposure time: 4 Test atmosphere: Method: Expert ju	h dust/mist
	Acute c	lermal toxicity	:	Acute toxicity esti Method: Expert ju	
		orrosion/irritation			
	Compo	onents:			
	Alendr	onate:			
	Species Remark		:	Rabbit Severe skin irritat	ion
		<b>s eye damage/eye irr</b> s serious eye damage.		on	
	<u>Compo</u>	onents:			
	Alendr				
	Species Result	5	:	Rabbit Severe irritation	
	Coleca	lciferol:			
	Species Result	5	:	Rabbit No eye irritation	
	Respira	atory or skin sensitis	atio	n	
		ensitisation ssified based on availa	able	information.	
	-	atory sensitisation ssified based on availa	able	information.	
	Compo	onents:			
	Alendr	onate:			
	Remark	(S	:	No data available	
	Coleca	Iciferol:			
	Test Ty Exposu Species Result	re routes		Maurer optimisation Skin contact Guinea pig negative	on test



/ersion .3	Revision Date: 23.03.2020		DS Number: 066-00016	Date of last issue: 13.09.2019 Date of first issue: 15.10.2014
Not c	n cell mutagenicity lassified based on avail	able	information.	
Com	ponents:			
	dronate: otoxicity in vitro	:	Test Type: Alkali Test system: rat Result: negative	
				erial reverse mutation assay (AMES) ion: with and without metabolic activation
			Test Type: In vitr Result: negative	o mammalian cell gene mutation test
				nosomal aberration nese hamster ovary cells I
Geno	otoxicity in vivo	:	Test Type: Chror Species: Mouse Result: negative	nosomal aberration
Cole	calciferol:			
Geno	otoxicity in vitro	:		erial reverse mutation assay (AMES) Fest Guideline 471 I
				o mammalian cell gene mutation test Fest Guideline 476
				nosome aberration test in vitro Fest Guideline 473
Geno	otoxicity in vivo	:	cytogenetic assa Species: Rat Application Route	
			Test Type: In vive Species: Rat Application Route Result: positive	o mammalian alkaline comet assay e: Ingestion
Germ sessr	n cell mutagenicity- As- ment	:	Weight of eviden cell mutagen.	ce does not support classification as a germ



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	nogenicity assified based on avail	able information.	
Comp	oonents:		
Alend	Ironate:		
Expos	ation Route sure time t Organs	<ul> <li>Rat, male</li> <li>Oral</li> <li>2 Years</li> <li>1 mg/kg body v</li> <li>3,75 mg/kg body</li> <li>Thyroid</li> <li>The mechanism mans.</li> </ul>	
-	oductive toxicity acted of damaging the u	ınborn child.	
Comp	oonents:		
Alend	Ironate:		
Effect	s on fertility	Application Ro Fertility: NOAE	nale and female
Effect	s on foetal develop-	Symptoms: Re weight, Skeleta Result: Embryc spring were de Test Type: Dev Species: Rabb Application Ro	emale ute: Oral I Toxicity: LOAEL: 1 - 15 mg/kg body weight duced number of viable fetuses, Reduced bo al malformations btoxic effects and adverse effects on the off- tected. velopment it, female ute: Oral I Toxicity: NOAEL: 40 mg/kg body weight
Repro sessm	oductive toxicity - As- nent	: Some evidence animal experim	e of adverse effects on development, based c nents.
May c	- single exposure ause respiratory irritationonents:	on.	
	Ironate: ssment	: May cause res	piratory irritation.



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стот	- repeated exposu	e	
	• •		or repeated exposure.
Com	oonents:		
	dronate:		
	et Organs	: Bone, Stomac	h Kidney
	ssment		mage to organs through prolonged or repeate
Colec	calciferol:		
	sure routes	: Ingestion	
	et Organs ssment	: Kidney, Blood,	
A5563	Samerit		uce significant health effects in animals at co 10 mg/kg bw or less.
Repe	ated dose toxicity		
•	ponents:		
Alenc	dronate:		
Speci		: Rat	
NOAE		: 2,5 mg/kg	
LOAE		: > 2,5 mg/kg : Intravenous	
	cation Route sure time	: 53 Weeks	
	et Organs	: Stomach	
Speci		: Dog	
LOAE		: 0,01 mg/kg	
	cation Route sure time	: Intravenous : 3 yr	
	et Organs	: Stomach, Bon	e. Kidnev
-	-		
Speci NOAE		: Dog : 2 mg/kg	
LOAE		: 4 mg/kg	
	cation Route	: Oral	
	sure time	: 53 Weeks	
Targe	et Organs	: Kidney	
Colec	calciferol:		
Speci		: Rat	
NOAE		: 0,06 mg/kg	
LOAE		: 0,3 mg/kg	
	cation Route sure time	: Ingestion : 90 Days	
Metho		: OECD Test Gu	uideline 408

Not classified based on available information.



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Comp	oonents:			
Alend	Ironate:			
Not ap	oplicable			
_				
Exper	rience with human exp	osi	ire	
Comp	oonents:			
Alend	Ironate:			
Inhala		:		atory tract irritation
	ontact	:	Symptoms: Seve	re irritation, skin blistering
Ingest		÷		ointestinal disturbance, musculoskeletal pai
•				· · ·
CHON	12: Ecological infor	rma	tion	
1 Toxic	ity			
.1 Toxic	-			
<u>Comp</u>	oonents:			
Alend	Ironate:			
Toxici	ty to fish	:		s promelas (fathead minnow)): 27 mg/l
			Exposure time: 9	
			Method: OECD 1	est Guideline 203
				hus mykiss (rainbow trout)): > 1.000 mg/l
			Exposure time: 9	
			Method: FDA 4.1	I
	ty to daphnia and other	:		nagna (Water flea)): 170 mg/l
aquati	ic invertebrates		Exposure time: 4	
			Method: OECD 1	est Guideline 202
Toxici	ty to algae/aquatic	:	ErC50 (Pseudoki	rchneriella subcapitata (green algae)): > 10
plants			mg/l	
			Exposure time: 72 Method: OECD T	
				rchneriella subcapitata (green algae)): 4 mg
			Exposure time: 72 Method: OECD T	
Toxici	ty to fish (Chronic tox-	:	NOEC: 1,1 mg/l	
			Exposure time: 32 Species: Pimerba	2 d ales promelas (fathead minnow)
icity)				est Guideline 210
			LOEC: 1,9 mg/l	2 d
			LOEC: 1,9 mg/l Exposure time: 32	
			LOEC: 1,9 mg/l Exposure time: 3 Species: Pimepha	2 d ales promelas (fathead minnow) est Guideline 210
icity)	ty to daphnia and other		LOEC: 1,9 mg/l Exposure time: 33 Species: Pimepha Method: OECD T	ales promelas (fathead minnow)



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	aquatic invertebrates (Chron- ic toxicity)		Exposure time: 21 d Species: Daphnia magna (Water flea) Method: OECD Test Guideline 211			
Colec	calciferol:					
Toxic	ity to fish	Exposure time:	rio (zebra fish)): > 100 mg/l 96 h 9 Test Guideline 203			
	ity to daphnia and other ic invertebrates	Exposure time:	magna (Water flea)): > 100 mg/l 48 h Test Guideline 202			
Toxici plants	ity to algae/aquatic	100 mg/l Exposure time:	EL50 (Scenedesmus capricornutum (fresh water algae)): > 100 mg/l Exposure time: 96 h Method: OECD Test Guideline 201			
12.2 Persi	stence and degradabil	ity				
<u>Comp</u>	oonents:					
	dronate: gradability	: Result: Readily Biodegradation Exposure time:				
Stabil	ity in water		Degradation half life (DT50): 375 d Method: OECD Test Guideline 111			
Colec	calciferol:					
Biode	gradability	Biodegradation Exposure time:	Result: Not readily biodegradable. Biodegradation: <= 7 % Exposure time: 28 d Method: OECD Test Guideline 301C			
12.3 Bioad	ccumulative potential					
<u>Comp</u>	oonents:					
Partiti	<b>dronate:</b> ion coefficient: n- ol/water	: log Pow: -1,73				
<b>Colec</b> Partiti	calciferol: ion coefficient: n- ol/water	: log Pow: > 6,2 Method: OECD	• Test Guideline 107			
12.4 Mobi						
	Its of PBT and vPvB as	ssessment				
Not re	elevant					
		14 / 17	·			



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	<b>r adverse effects</b> ata available		
SECTION	N 13: Disposal cons	iderations	
13.1 Wast	te treatment methods		
Produ	uct aminated packaging	According to th are not produc Waste codes s discussion with Empty contain dling site for re	accordance with local regulations. The European Waste Catalogue, Waste Codes it specific, but application specific. should be assigned by the user, preferably in in the waste disposal authorities. ers should be taken to an approved waste han- acycling or disposal. e specified: Dispose of as unused product.
SECTION	N 14: Transport info		
<b>14.1 UN n</b> Not re	u <b>mber</b> egulated as a dangerou	us good	
•	roper shipping name		
	sport hazard class(es egulated as a dangerou	•	
14.4 Pack	ing group		

Not regulated as a dangerous good

#### 14.5 Environmental hazards

Not regulated as a dangerous good

### 14.6 Special precautions for user

Not applicable

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

Remarks : Not applicable for product as supplied.

### **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.



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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 t	ext of H-Statements							
H300		: Fatal if swalld	wed					
H302			Harmful if swallowed.					
H310			Fatal in contact with skin.					
H315			Causes skin irritation.					
H318		: Causes serio	Causes serious eye damage.					
H330			Fatal if inhaled.					
H335			May cause respiratory irritation.					
H361d			Suspected of damaging the unborn child.					
H372			age to organs through prolonged or repeated					
H373		exposure. : May cause da exposure.	amage to organs through prolonged or repeated					
H413	H413		May cause long lasting harmful effects to aquatic life.					
Full text of other abbreviations								
Acute	e Tox.	: Acute toxicity						
Aquatic Chronic			Long-term (chronic) aquatic hazard					
Eye Dam.			Serious eye damage					
Repr.			Reproductive toxicity					
Skin Irrit.			Skin irritation					
STO			et organ toxicity - repeated exposure					
STO ZA O			et organ toxicity - single exposure Hazardous Chemical Substances Regulations,					
ZAU			Exposure Limits					
7A O	EL / TWA OEL-RL		cupational exposure limits - recommended limit					
	EL / STEL OEL-RL		cupational exposure limits - recommended limit					
ADN Wate Good for th tion; I - Star	- European Agreement rways; ADR - Europea Is by Road; AICS - Aus e Testing of Materials; Regulation (EC) No 12 Indard of the German In	concerning the Inte an Agreement cond stralian Inventory of bw - Body weight; 72/2008; CMR - Ca nstitute for Standard	ernational Carriage of Dangerous Goods by Inland cerning the International Carriage of Dangerous Chemical Substances; ASTM - American Society CLP - Classification Labelling Packaging Regula- rcinogen, Mutagen or Reproductive Toxicant; DIN disation; DSL - Domestic Substances List (Cana- -Number - European Community number; ECx -					

da); 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



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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; 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		Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agen- cy, http://echa.europa.eu/	
Classification of the mixture	e:		Classification procedure:
Acute Tox. 4	H30	)2	Calculation method
Skin Irrit. 2	H31	15	Calculation method
Eye Dam. 1	H31	18	Calculation method
Repr. 2	H36	51d	Calculation method
STOT SE 3	H33	35	Calculation method
STOT RE 2	H37	73	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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