

Alendronate Solid Formulation

Vers 4.10		Revision Date: 16.10.2020		S Number: 74-00015	Date of last issue: 13.09.2019 Date of first issue: 15.10.2014		
SEC	SECTION 1. PRODUCT AND COMPANY IDENTIFICATION						
	Product	name	:	Alendronate Solic	d Formulation		
	Manufa	cturer or supplier's d	letai	ls			
	Compa	ny	:	Organon & Co.			
	Address	5	:	30 Hudson Street Jersey City, New	t, 33nd floor Jersey, U.S.A 07302		
	Telepho	one	:	551-430-6000			
	Emerge	ency telephone number	:	215-631-6999			
	E-mail a	address	:	EHSSTEWARD@	⊉organon.com		
	Recom	mended use of the ch	nemi	cal and restrictio	ons on use		
	Recom	mended use	:	Pharmaceutical			
SEC		HAZARDS IDENTIFIC	. ΔT	ION			
020			-				

GHS Classification

Skin corrosion/irritation	:	Category 2
Serious eye damage/eye irri- tation	:	Category 1
Reproductive toxicity	:	Category 2
Specific target organ toxicity - single exposure	:	Category 3
Specific target organ toxicity - repeated exposure	:	Category 2 (Bone, Stomach, Kidney)
GHS label elements		
Hazard pictograms	:	
Signal word	:	Danger
Hazard statements	:	 H315 Causes skin irritation. H318 Causes serious eye damage. H335 May cause respiratory irritation. H361d Suspected of damaging the unborn child. H373 May cause damage to organs (Bone, Stomach, Kidney) through prolonged or repeated exposure.
Precautionary statements	:	Prevention:



and understood. P260 Do not breathe dust. P264 Wash skin thoroughly after handling. P271 Use only outdoors or in a well-ventilate. P280 Wear protective gloves/ eye protection/ P281 Use personal protective equipment as r Response: P302 + P352 IF ON SKIN: Wash with plenty of P304 + P340 + P312 IF INHALED: Remove of and keep at rest in a position comfortable for POISON CENTER or doctor/ physician if you P305 + P351 + P338 + P310 IF IN EYES: Ri water for several minutes. Remove contact le and easy to do. Continue rinsing. Immediately CENTER or doctor/ physician. P308 + P313 IF exposed or concerned: Get r attention. P332 + P313 IF skin irritation occurs: Get med tion. P362 Take off contaminated clothing and was Storage: P405 Store locked up. Disposal: P501 Dispose of contents/ container to an ap disposal plant. Other hazards which do not result in classification May form explosive dust-air mixture during processing, handling or other means. SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS	Version 4.10	Revision Date: 16.10.2020	SDS Number: 22274-00015	Date of last issue: 13.09.2019 Date of first issue: 15.10.2014
 P302 + P352 IF ON SKIN: Wash with plenty of P304 + P340 + P312 IF INHALED: Remove of and keep at rest in a position comfortable for POISON CENTER or doctor/ physician if you P305 + P351 + P338 + P310 IF IN EYES: Rin water for several minutes. Remove contact lea and easy to do. Continue rinsing. Immediately CENTER or doctor/ physician. P308 + P313 IF exposed or concerned: Get r attention. P332 + P313 If skin irritation occurs: Get meet ion. P362 Take off contaminated clothing and was Storage: P405 Store locked up. Disposal: P501 Dispose of contents/ container to an ap disposal plant. Other hazards which do not result in classification May form explosive dust-air mixture during processing, handling or other means. 			P202 Do not h and understod P260 Do not h P264 Wash sl P271 Use only P280 Wear pr	handle until all safety precautions have been read bd. breathe dust. kin thoroughly after handling. y outdoors or in a well-ventilated area. botective gloves/ eye protection/ face protection.
P405 Store locked up. Disposal: P501 Dispose of contents/ container to an ap disposal plant. Other hazards which do not result in classification May form explosive dust-air mixture during processing, handling or other means. SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS			P302 + P352 P304 + P340 and keep at re POISON CEN P305 + P351 water for seve and easy to de CENTER or d P308 + P313 attention. P332 + P313 tion.	+ P338 + P310 IF IN EYES: Rinse cautiously with eral minutes. Remove contact lenses, if present o. Continue rinsing. Immediately call a POISON
P501 Dispose of contents/ container to an ap disposal plant. Other hazards which do not result in classification May form explosive dust-air mixture during processing, handling or other means. SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS			-	cked up.
May form explosive dust-air mixture during processing, handling or other means. SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS			P501 Dispose	
May form explosive dust-air mixture during processing, handling or other means. SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS	Othe	er hazards which do n	ot result in classific	ation
SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS				
		-		
			: Mixture	
Components			· MIXIO	

Chemical name	CAS-No.	Concentration (% w/w)
Cellulose	9004-34-6	>= 30 -< 60
Alendronate	121268-17-5	>= 20 -< 30

SECTION 4. FIRST AID MEASURES

General advice	:	In the case of accident or if you feel unwell, seek medical ad- vice immediately. When symptoms persist or in all cases of doubt seek medical advice.
If inhaled	:	If inhaled, remove to fresh air. Get medical attention.
In case of skin contact	:	In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing



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			attention. g before reuse. lean shoes before reuse.	
In cas	se of eye contact	: In case of co for at least 1 If easy to do,	ntact, immediately flush eyes with plenty of water	
lf swa	allowed	Get medical	If swallowed, DO NOT induce vomiting. Get medical attention. Rinse mouth thoroughly with water.	
Most important symptoms and effects, both acute and delayed		: Causes skin Causes seric May cause re Suspected of		
	ction of first-aiders	: First Aid resp and use the r when the pot	oonders should pay attention to self-protection, recommended personal protective equipment ential for exposure exists (see section 8).	
	s to physician		matically and supportively.	

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media	:	Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical
Unsuitable extinguishing media	:	None known.
Specific hazards during fire- fighting	:	Avoid generating dust; fine dust dispersed in air in sufficient 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.
Hazardous combustion prod- ucts	:	Carbon oxides Nitrogen oxides (NOx) Phosphorus compounds Metal oxides
Specific extinguishing meth- ods	:	Use extinguishing measures that are appropriate to local cir- cumstances and the surrounding environment. Use water spray to cool unopened containers. Remove undamaged containers from fire area if it is safe to do so. Evacuate area.
Special protective equipment for firefighters	:	In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.

SECTION 6. ACCIDENTAL RELEASE MEASURES

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



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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. 			
Methods and materials for : containment and cleaning up		:	tainer for disposa 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 of mine which regula Sections 13 and	dust in the air (i.e., clearing dust surfaces		

SECTION 7. HANDLING AND STORAGE

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	 If sufficient ventilation is unavailable, use with local exhaust ventilation.
Advice on safe handling	 Do not get on skin or clothing. Do not breathe dust. Do not swallow. Do not get in eyes. 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. Already sensitised individuals should consult their physician regarding working with respiratory irritants or sensitisers. 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. Take care to prevent spills, waste and minimize release to the
Hygiene measures	 environment. If exposure to chemical is likely during typical use, provide eye flushing systems and safety showers close to the working place. When using do not eat, drink or smoke. Wash contaminated clothing before re-use. The effective operation of a facility should include review of engineering controls, proper personal protective equipment, appropriate degowning and decontamination procedures, industrial hygiene monitoring, medical surveillance and the



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	itions for safe storage	use of adminis	strative controls. rly labelled containers.
Materials to avoid		Store in accor	l, well-ventilated place. dance with the particular national regulations. vith the following product types:

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

•	•					
Components	CAS-No.	Value type (Form of	Control parame- ters / Permissible	Basis		
		exposure)	concentration			
Cellulose	9004-34-6	TWA	10 mg/m3	AU OEL		
		Further information: This value is for inhalable dust containing no asbestos and < 1% crystalline silica				
		TWA	10 mg/m3	ACGIH		
Alendronate	121268-17-5	TWA	20 µg/m3 (OEB 3)	Internal		
		Wipe limit	200 µg/100 cm ²	Internal		

Components with workplace control parameters

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 con- tainment devices). Minimize open handling.
Personal protective equipmen	t
Respiratory protection : Filter type :	If adequate local exhaust ventilation is not available or expo- sure assessment demonstrates exposures outside the rec- ommended guidelines, use respiratory protection. Particulates type
Hand protection	
Material :	Chemical-resistant gloves
Remarks : Eye protection : Skin and body protection :	Consider double gloving. 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. Work uniform or laboratory coat.
Skin and body protection .	Additional body garments should be used based upon the task being performed (e.g., sleevelets, apron, gauntlets, dis- posable suits) to avoid exposed skin surfaces. Use appropriate degowning techniques to remove potentially contaminated clothing.



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SECTI	ON 9. PHYS	ICAL AND CHE	ΞΜΙΟ		3
Ap	pearance		:	powder	
Co	blour		:	white	
Oc	dour		:	odourless	
Oc	dour Thresho	old	:	No data available	9
p⊦	ł		:	No data available)
Me	elting point/fr	eezing point	:	No data available)
	tial boiling po nge	oint and boiling	:	No data available	3
Fla	ash point		:	Not applicable	
E٧	aporation ra	te	:	Not applicable	
Fla	ammability (s	solid, gas)	:	May form explosi dling or other me	ve dust-air mixture during processing, han- ans.
Fla	ammability (I	iquids)	:	No data available)
	oper explosic mmability lin	on limit / Upper nit	:	No data available	
	wer explosic mmability lin	on limit / Lower nit	:	No data available)
Va	apour pressu	re	:	No data available)
Re	elative vapou	ır density	:	Not applicable	
Re	elative densit	y	:	No data available	9
De	ensity		:	1 g/cm3	
Sc	olubility(ies) Water solut	bility	:	No data available	•
	artition coeffic	cient: n-	:	Not applicable	
	tanol/water ito-ignition te	emperature	:	No data available	9
De	ecomposition	temperature	:	No data available	9
Vis	scosity Viscosity, k	inematic	:	Not applicable	
Ex	plosive prop	erties	:	Not explosive	



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Oxidi	zing properties	: The substance	e or mixture is not classified as oxidizing.
Particle size		: No data availa	able

SECTION 10. STABILITY AND REACTIVITY

Reactivity Chemical stability Possibility of hazardous reac- tions		Not classified as a reactivity hazard. Stable under normal conditions. May form explosive dust-air mixture during processing, han- dling or other means. Can react with strong oxidizing agents.
Conditions to avoid	:	Heat, flames and sparks. Avoid dust formation.
Incompatible materials Hazardous decomposition products	:	Oxidizing agents No hazardous decomposition products are known.

SECTION 11. TOXICOLOGICAL INFORMATION

Exposure routes	:	Inhalation Skin contact Ingestion Eye contact
Acute toxicity		
Not classified based on availa	ble	information.
Product:		
Acute oral toxicity	:	Acute toxicity estimate: > 2,000 mg/kg Method: Calculation method
Components:		
Cellulose:		
Acute oral toxicity	:	LD50 (Rat): > 5,000 mg/kg
Acute inhalation toxicity	:	LC50 (Rat): > 5.8 mg/l Exposure time: 4 h Test atmosphere: dust/mist
Acute dermal toxicity	:	LD50 (Rabbit): > 2,000 mg/kg
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



sion 0	Revision Date: 16.10.2020		9S Number: 274-00015	Date of last issue: 13.09.2019 Date of first issue: 15.10.2014
Skin	corrosion/irritation			
Cause	es skin irritation.			
<u>Com</u>	ponents:			
Alend	dronate:			
Speci Rema		:	Rabbit Severe skin irrita	tion
	us eye damage/eye es serious eye damag		on	
	oonents:	J -		
Alend	dronate:			
Speci Resu	es	:	Rabbit Severe irritation	
Resp	iratory or skin sensi	itisatio	n	
-	sensitisation lassified based on ava	ailable	information.	
-	iratory sensitisation lassified based on ava		information.	
<u>Com</u>	oonents:			
	dronate:			
Rema	arks	:	No data available	
Chro	nic toxicity			
	a cell mutagenicity lassified based on ava	ailable	information.	
<u>Com</u>	oonents:			
Cellu	lose:			
Geno	toxicity in vitro	:	Test Type: Bacte Result: negative	rial reverse mutation assay (AMES)
			Test Type: In vitr Result: negative	o mammalian cell gene mutation test
Geno	toxicity in vivo	:	Test Type: Mamr cytogenetic assa Species: Mouse Application Route Result: negative	
Alend	dronate:			
Geno	toxicity in vitro	:	Test Type: Alkali Test system: rat	



ersion 10	Revision Date: 16.10.2020		S Number: 74-00015	Date of last issue: 13.09.2019 Date of first issue: 15.10.2014
			Result: negative	9
				erial reverse mutation assay (AMES) ation: with and without metabolic activation
			Test Type: In vi Result: negative	tro mammalian cell gene mutation test
				omosomal aberration ninese hamster ovary cells al
Geno	toxicity in vivo		Test Type: Chro Species: Mouse Result: negative	
	nogenicity lassified based on avai	ilable iı	nformation.	
<u>Com</u>	ponents:			
Cellu	lose:			
Spec			Rat	
	cation Route sure time		Ingestion 72 weeks	
Resu			negative	
Alend	dronate:			
Spec			Rat, male	
	cation Route sure time		Oral 2 Years	
Схро			1 mg/kg body w	eight
_		:	3.75 mg/kg bod	
Targe Rema	et Organs arks	:	Thyroid The mechanism mans.	or mode of action may not be relevant in hu
Repr	oductive toxicity			
Susp	ected of damaging the	unborr	n child.	
<u>Com</u>	ponents:			
Cellu	lose:			
Effect	ts on fertility		Test Type: One Species: Rat Application Rou Result: negative	
Effect	ts on foetal develop-		Test Type: Fert Species: Rat	lity/early embryonic development te: Ingestion



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Alenc	dronate:			
	s on fertility	5 <i>4</i> F	Application Ro	nale and female
Effects on foetal develop- ment		S A E S V F	Symptoms: Re weight, Skeleta	emale ute: Oral Toxicity: LOAEL: 1 - 15 mg/kg body weight duced number of viable fetuses, Reduced b Il malformations otoxic effects and adverse effects on the off-
		5 / [Test Type: Dev Species: Rabbi Application Rou Developmental Result: No adv	it, female ute: Oral Toxicity: NOAEL: 40 mg/kg body weight
sessn			Some evidence animal experim	e of adverse effects on development, based ients.
sessn STOT May o	•	a		
STOT May of Comp Alend	nent - single exposure cause respiratory irrita	ation.	animal experim	
STOT May c Comp Alence Asses	nent - single exposure cause respiratory irrita conents: dronate: ssment - repeated exposure	tion. : N	animal experim May cause res	piratory irritation.
SESSIN STOT May of Comp Alend Asses STOT May of	nent - single exposure cause respiratory irrita conents: dronate: ssment - repeated exposure	tion. : N	animal experim May cause res	ients.
SESSIN STOT May of Comp Alence Asses STOT May of Comp Alence Targe	nent - single exposure cause respiratory irrita conents: dronate: ssment - repeated exposure cause damage to orga	ة tion. : ٩ ns (Bon : ٩ : ٩	animal experim May cause res le, Stomach, K Bone, Stomach	piratory irritation. idney) through prolonged or repeated expos
SESSIN STOT May of Comp Alence Asses STOT May of Comp Alence Targe Asses	nent - single exposure cause respiratory irrita conents: dronate: ssment - repeated exposure cause damage to orga conents: dronate: et Organs	ة tion. : ٩ ns (Bon : ٩ : ٩	animal experim May cause res le, Stomach, K Bone, Stomach May cause dan	piratory irritation. idney) through prolonged or repeated expos
SESSIN STOT May of Comp Alence Asses STOT May of Comp Alence Targe Asses Repe	nent - single exposure cause respiratory irrita conents: dronate: ssment - repeated exposure cause damage to orga conents: dronate: et Organs ssment	ة tion. : ٩ ns (Bon : ٩ : ٩	animal experim May cause res le, Stomach, K Bone, Stomach May cause dan	piratory irritation. idney) through prolonged or repeated expos
SESSIN STOT May of Comp Alence Asses STOT May of Comp Alence Targe Asses Repe	nent - single exposure cause respiratory irrita conents: dronate: ssment - repeated exposure cause damage to orga conents: dronate: et Organs ssment ated dose toxicity conents:	ة tion. : ٩ ns (Bon : ٩ : ٩	animal experim May cause res le, Stomach, K Bone, Stomach May cause dan	piratory irritation. idney) through prolonged or repeated expos



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Speci NOAE LOAE Applic Expos Targe Speci LOAE Applic Expos Targe Speci NOAE LOAE Applic Expos	EL EL cation Route sure time et Organs es EL cation Route sure time et Organs es	: Rat : 2.5 mg/kg : > 2.5 mg/kg : Intravenous : 53 Weeks : Stomach : Dog : 0.01 mg/kg : Intravenous : 3 yr : Stomach, E : Dog : 2 mg/kg : 4 mg/kg : Oral : 53 Weeks : Kidney	s

Aspiration toxicity

Not classified based on available information.

Components:

Alendronate:

Not applicable

Experience with human exposure

Components:

Alendronate:

Inhalation	:	Symptoms: respiratory tract irritation
Skin contact	:	Symptoms: Severe irritation, skin blistering
Eye contact	:	Symptoms: Severe irritation
Ingestion	:	Symptoms: Gastrointestinal disturbance, musculoskeletal pain

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity	
Components:	
Cellulose:	
Toxicity to fish	 LC50 (Oryzias latipes (Japanese medaka)): > 100 mg/l Exposure time: 48 h Remarks: Based on data from similar materials
Alendronate:	
Toxicity to fish	: LC50 (Pimephales promelas (fathead minnow)): 27 mg/l Exposure time: 96 h



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			Method: OECD To	est Guideline 203
			LC50 (Oncorhync Exposure time: 96 Method: FDA 4.11	
	ity to daphnia and other ic invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: OECD Te	
Toxici plants	ity to algae/aquatic	:	ErC50 (Pseudokir mg/l Exposure time: 72 Method: OECD Te	
			NOEC (Pseudokin Exposure time: 72 Method: OECD Te	
Toxici icity)	ity to fish (Chronic tox-	:	NOEC (Pimephale Exposure time: 32 Method: OECD Te	
			LOEC (Pimephale Exposure time: 32 Method: OECD Te	
	ity to daphnia and other ic invertebrates (Chron- icity)	:	NOEC (Daphnia r Exposure time: 21 Method: OECD To	
Persi	stence and degradabil	ity		
<u>Com</u>	oonents:			
Cellu				
Biode	gradability	:	Result: Readily bi	odegradable.
	dronate:			
Biode	gradability	:	Result: Readily bi Biodegradation: 7 Exposure time: 7	70.3 %
Stabil	ity in water	:	Degradation half I Method: OECD Te	
Bioad	cumulative potential			
Com	oonents:			
Partiti	dronate: ion coefficient: n- ol/water	:	log Pow: -1.73	

IECSC



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	lity in soil			
	ata available			
	r adverse effects			
	ata available			
SECTION	13. DISPOSAL CONS	IDERATIONS		
Dispo	osal methods			
	e from residues aminated packaging	: Empty co dling site	of in accordance with local re ntainers should be taken to for recycling or disposal. erwise specified: Dispose of	an approved waste han-
ECTION	14. TRANSPORT INF	ORMATION		
Interr	national Regulations			
UNR Not re	FDG egulated as a dangerou	s good		
	-DGR egulated as a dangerou	s good		
-	-Code egulated as a dangerou	s good		
	sport in bulk accordin pplicable for product as	-	f MARPOL 73/78 and the I	BC Code
Natio	nal Regulations			
ADG Not re	egulated as a dangerou	s good		
ECTION	15. REGULATORY IN	FORMATION		
Safet ture	y, health and environ	mental regula	ons/legislation specific fo	or the substance or mix
Prohi	bition/Licensing Requir	ements	: There is no	applicable prohibition,
			authorisatic requiremen gens referre	on and restricted use ts, including for carcino- ed to in Schedule 10 of VHS Act and Regula-
The c AICS	• •	oduct are repo : not deter	rted in the following inver nined	ntories:
DSL		: not deter	nined	

: not determined



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SECTION 16. OTHER INFORMATION									
Fu	urther information								
Revision Date Sources of key data used to compile the Safety Data Sheet		:	16.10.2020 Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agen- cy, http://echa.europa.eu/						
Da	Date format		dd.mm.yyyy						
Full text of other abbreviations									
ACGIH AU OEL		:	USA. ACGIH Threshold Limit Values (TLV) Australia. Workplace Exposure Standards for Airborne Con taminants.						
ACGIH / TWA AU OEL / TWA		:	8-hour, time-weighted average Exposure standard - 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 mate-



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rial 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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