



Version 6.1	Revision Date: 26.09.2023		S Number: 79-00021	Date of last issue: 20.03.2023 Date of first issue: 15.10.2014			
SECTION	SECTION 1. PRODUCT AND COMPANY IDENTIFICATION						
Product name		:	Alendronate Solid Formulation				
Manu	afacturer or supplier's	s detai	ls				
Com	Company		Organon & Co.				
Address		:	Rua Treze de Maio, 1161 Campinas, São Paulo, Brazil 13106-054				
Telep	Telephone		+55 (19) 3758-2000				
Emergency telephone		:	+55 (11) 3173-4931				
E-ma	il address	:	EHSSTEWARD	@organon.com			
Recommended use of the chemic Recommended use : Restrictions on use :			ical and restriction Pharmaceutical Not applicable	ons on use			

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification	in accordance with	ABNT NBR 14725 Standar	'n
Ono orassincation			u

Acute toxicity (Oral)	:	Category 5
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 (Bone, Stomach, Kidney)
Short-term (acute) aquatic hazard	:	Category 3

GHS label elements in accordance with ABNT NBR 14725 Standard

Hazard pictograms	:	
Signal Word	:	Danger



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Hazard Statements		H315 Causes H318 Causes H335 May cau H361d Suspe H373 May cau through prolo	 H303 May be harmful if swallowed. 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. H402 Harmful to aquatic life. 			
Precautionary Statements		P260 Do not l P264 Wash s P273 Avoid re	kin thoroughly after handling. elease to the environment. rotective gloves/ protective clothing/ eye protec-			
		water for seve	+ P338 + P310 IF IN EYES: Rinse cautiously with eral minutes. Remove contact lenses, if present o. Continue rinsing. Immediately call a POISON ctor.			

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

Substance.	/ Mixture	:	Mixture

Components

Chemical name	CAS-No.	Classification	Concentration (% w/w)
Cellulose	9004-34-6		>= 30 -< 50
Alendronate	121268-17-5	Acute toxicity (Oral), Category 4 Skin irritation, Category 2 Serious eye damage, Category 1 Reproductive toxicity, Category 2 Specific target organ toxicity - single expo- sure, Category 3 Specific target organ toxicity - repeated exposure (Bone, Stomach, Kidney), Category 2 Short-term (acute) aquatic hazard, Category 3	>= 25 -< 30



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SECTION	4. FIRST AID MEASU	RES	
Gene	eral advice	advice immed	accident or if you feel unwell, seek medical liately. ms persist or in all cases of doubt seek medical
lf inha	aled	: If inhaled, rem Get medical a	nove to fresh air. ttention.
In cas	se of skin contact	for at least 15 and shoes. Get medical a Wash clothing	ntact, immediately flush skin with plenty of water minutes while removing contaminated clothing ttention. g before reuse. ean shoes before reuse.
In cas	se of eye contact	: In case of con for at least 15 If easy to do,	tact, immediately flush eyes with plenty of wate
lf swa	allowed	: If swallowed, Get medical a	DO NOT induce vomiting.
	important symptoms effects, both acute and red	: May be harmf Causes skin in Causes seriou May cause re Suspected of	ul if swallowed.
Prote	ction of first-aiders	: First Aid respo and use the re	onders should pay attention to self-protection, ecommended personal protective equipment ential for exposure exists (see section 8).
Notes	s to physician		matically and supportively.

SECTION 5. FIRE-FIGHTING 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.



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		l protective equipment fighters	:	so. Evacuate area.	ged containers from fire area if it is safe to do e, wear self-contained breathing apparatus. ective equipment.
SEC	TION 6	. ACCIDENTAL RELE	ASI	EMEASURES	
	tive equ	al precautions, protec- uipment and emer- procedures	:		ective equipment. ing advice (see section 7) and personal ent recommendations (see section 8).
	Enviror	nmental precautions	:	Retain and dispos	akage or spillage if safe to do so. se of contaminated wash water. should be advised if significant spillages
		ls and materials for ment and cleaning up	:	over the area to m Add excess liquid Soak up with inert Avoid dispersal of with compressed Dust deposits sho surfaces, as these released into the a Clean up remainin absorbent. Local or national m disposal of this ma employed in the c determine which m Sections 13 and 1	n absorbents and place a damp covering hinimize entry of the material into the air. to allow the material to enter into solution. absorbent material. dust in the air (i.e., clearing dust surfaces air). und not be allowed to accumulate on a may form an explosive mixture if they are atmosphere in sufficient concentration. In materials from spill with suitable regulations may apply to releases and aterial, as well as those materials and items leanup of releases. You will need to egulations are applicable. 5 of this SDS provide information regarding tional requirements.

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 sensitized individuals, and those susceptible



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Hygiene measures		 should consult the respiratory irritane Minimize dust get Keep container of Keep away from Take precautionae Take care to prevenvironment. If exposure to che flushing systems place. When using do ne Wash contaminae The effective operente engineering contable contaminae contaminae	eneration and accumulation. closed when not in use. heat and sources of ignition. ary measures against static discharges. vent spills, waste and minimize release to the emical is likely during typical use, provide eye and safety showers close to the working not eat, drink or smoke. ted clothing before re-use. eration of a facility should include review of rols, proper personal protective equipment,		
	itions for safe storage ials to avoid	 appropriate degowning and decontamination procedure industrial hygiene monitoring, medical surveillance and use of administrative controls. Keep in properly labeled containers. Store locked up. Keep tightly closed. Keep in a cool, well-ventilated place. Store in accordance with the particular national regula Do not store with the following product types: Strong oxidizing agents 			

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Cellulose	9004-34-6	TWA	10 mg/m ³	ACGIH
Alendronate	121268-17-5	TWA	20 µg/m3 (OEB 3)	Internal
		Wipe limit	200 µg/100 cm ²	Internal

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
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Respiratory protection	:	If adequate local exhaust ventilation is not available or exposure assessment demonstrates exposures outside the recommended guidelines, use respiratory protection.
Filter type Hand protection	:	Particulates type



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Material		: Chemical-resistant gloves						
Remarks Eye protection		If the work env mists or aeros Wear a facest	ble gloving. lasses with side shields or goggles. vironment or activity involves dusty conditions, ols, wear the appropriate goggles. hield or other full face protection if there is a rect contact to the face with dusts, mists, or					
Skin a	and body protection	 Work uniform or laboratory coat. Additional body garments should be used based upon the task being performed (e.g., sleevelets, apron, gauntlets, disposable suits) to avoid exposed skin surfaces. Use appropriate degowning techniques to remove potentially contaminated clothing. 						

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	powder
Color	:	white
Odor	:	odorless
Odor Threshold	:	No data available
рН	:	No data available
Melting point/freezing point	:	No data available
Initial boiling point and boiling range	:	No data available
Flash point	:	Not applicable
Evaporation rate	:	Not applicable
Flammability (solid, gas)	:	May form explosive dust-air mixture during processing, handling or other means.
Flammability (liquids)	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapor pressure	:	No data available
Relative vapor density	:	Not applicable
Relative density	:	No data available
Density	:	1 g/cm ³



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	bility(ies) ater solubility	:	No data available	e
	Partition coefficient: n- octanol/water		Not applicable	
	gnition temperature	:	No data available	e
Deco	mposition temperature	:	No data available	e
Visco Vi	osity scosity, kinematic	:	Not applicable	
Explo	osive properties	:	Not explosive	
Oxidi	zing properties	:	The substance o	r mixture is not classified as oxidizing.
Partic	cle size	:	No data available	e

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, handling or other means. Can react with strong oxidizing agents.
Conditions to avoid	:	Heat, flames and sparks. Avoid dust formation.
Incompatible materials Hazardous decomposition		Oxidizing agents No hazardous decomposition products are known.
products	-	

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure	:	Inhalation Skin contact Ingestion Eye contact
Acute toxicity		
May be harmful if swallowed.		
Product:		
Acute oral toxicity	:	Acute toxicity estimate: 2.115 mg/kg Method: Calculation method
Components:		
Cellulose:		
Acute oral toxicity	:	LD50 (Rat): > 5.000 mg/kg



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Acute	inhalation toxicity	:	LC50 (Rat): > 5 Exposure time: Test atmosphe	: 4 h
Acute	dermal toxicity	:	LD50 (Rabbit):	> 2.000 mg/kg
Alend	Ironate:			
Acute	oral toxicity	:	LD50 (Rat): 55	2 - 626 mg/kg
			LD50 (Mouse):	966 - 1.280 mg/kg
Acute	inhalation toxicity	:	Remarks: No d	ata available
Acute	dermal toxicity	:	Remarks: No d	lata available
	corrosion/irritation es skin irritation.			
<u>Comp</u>	oonents:			
Alend	Ironate:			
Specie Rema		:	Rabbit Severe skin irri	tation
	us eye damage/eye i		on	
Cause	es serious eye damage/eye i onents:		on	
Cause <u>Comp</u> Alend	es serious eye damag ponents: Ironate:			
Cause <u>Comp</u>	es serious eye damag ponents: Ironate: es		on Rabbit Severe irritatio	n
Cause <u>Comp</u> Alend Specie Result	es serious eye damag ponents: Ironate: es	e. :	Rabbit Severe irritatio	n
Cause <u>Comp</u> Alend Specie Result Respi	es serious eye damag ponents: Ironate: es t	e. : : tizatio	Rabbit Severe irritatio n	n
Cause Comp Alend Specie Result Respi Skin s Not cla Respi	es serious eye damag ponents: Ironate: es t iratory or skin sensit sensitization	e. : tizatio	Rabbit Severe irritatio n information.	n
Cause Comp Alend Specie Result Respi Skin s Not cla Not cla	es serious eye damag ponents: Ironate: es t iratory or skin sensit sensitization assified based on ava iratory sensitization	e. : tizatio	Rabbit Severe irritatio n information.	n
Cause Comp Alend Specie Result Respi Skin s Not cla Not cla Not cla	es serious eye damag <u>ponents:</u> Ironate: es t iratory or skin sensit sensitization assified based on ava iratory sensitization assified based on ava	e. : tizatio	Rabbit Severe irritatio n information.	n
Cause Comp Alend Specie Result Respi Skin s Not cla Not cla Not cla	es serious eye damag <u>conents:</u> Ironate: es t iratory or skin sensit sensitization assified based on ava iratory sensitization assified based on ava <u>conents:</u> Ironate:	e. : tizatio	Rabbit Severe irritatio n information.	
Cause Comp Alend Specie Respi Skin s Not cl: Respi Not cl: Comp Alend Rema	es serious eye damag <u>conents:</u> Ironate: es t iratory or skin sensit sensitization assified based on ava iratory sensitization assified based on ava <u>conents:</u> Ironate:	e. : tizatio uilable :	Rabbit Severe irritatio n information. information. No data availal	
Cause Comp Alend Specie Respi Skin s Not cla Not cla Comp Alend Rema Germ Not cla	es serious eye damag <u>conents:</u> Ironate: es t iratory or skin sensit sensitization assified based on ava iratory sensitization assified based on ava <u>conents:</u> Ironate: Irks cell mutagenicity	e. : tizatio uilable :	Rabbit Severe irritatio n information. information. No data availal	
Cause Comp Alend Specie Respi Skin s Not cla Not cla Comp Alend Rema Germ Not cla	es serious eye damag <u>conents:</u> Ironate: es t iratory or skin sensit sensitization assified based on ava <u>conents:</u> Ironate: Irks cell mutagenicity assified based on ava <u>conents:</u>	e. : tizatio uilable :	Rabbit Severe irritatio n information. information. No data availal	



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		Result: negative	
		Test Type: In vitro mammaliar Result: negative	n cell gene mutation test
Genotoxicity in vivo		: Test Type: Mammalian erythro cytogenetic assay) Species: Mouse Application Route: Ingestion Result: negative	ocyte micronucleus test (in viv
Alend	Ironate:		
Geno	toxicity in vitro	: Test Type: Alkaline elution as Test system: rat hepatocytes Result: negative	say
		Test Type: Bacterial reverse n Metabolic activation: with and Result: negative	
		Test Type: In vitro mammaliar Result: negative	n cell gene mutation test
		Test Type: Chromosomal abe Test system: Chinese hamste Result: equivocal	
Geno	toxicity in vivo	: Test Type: Chromosomal abe Species: Mouse Result: negative	rration
Carci	nogenicity		
	assified based on av	lable information.	
Com	oonents:		
Cellu	lose:		
Speci		: Rat	
	cation Route sure time	: Ingestion : 72 weeks	
Resul		: negative	
Alend	Ironate:		
Speci		: Rat, male	
	cation Route	: Oral	
Lvno	sure time	: 2 Years : 1 mg/kg body weight	
Expos		: 3,75 mg/kg body weight	
	et Organs	: Thyroid : The mechanism or mode of ad	



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	-	ductive toxicity cted of damaging the u	nbo	rn child.	
	Compo	onents:			
	Cellulo	ose:			
	Effects	on fertility	:	Test Type: One-g Species: Rat Application Route Result: negative	eneration reproduction toxicity study : Ingestion
	Effects	on fetal development	:	Test Type: Fertilit Species: Rat Application Route Result: negative	y/early embryonic development : Ingestion
	Alendr	onate:			
	Effects	on fertility	:		e and female
	Effects	on fetal development	:	Symptoms: Redu body weight, Skel	ale : Oral oxicity: LOAEL: 1 - 15 mg/kg body weight ced number of viable fetuses., Reduced etal malformations. xic effects and adverse effects on the
				Test Type: Develor Species: Rabbit, f Application Route Developmental To Result: No advers	emale : Oral pxicity: NOAEL: 40 mg/kg body weight
	Reprod sessme	luctive toxicity - As- ent	:	Some evidence o animal experimen	f adverse effects on development, based on ts.
		single exposure use respiratory irritatio	n.		
	Compo	onents:			
	Alendr Assess		:	May cause respire	atory irritation.

STOT-repeated exposure

May cause damage to organs (Bone, Stomach, Kidney) through prolonged or repeated exposure.



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Aland	onents:			
	ronate:			
			Pono Stomook	, Kidaay
Asses	t Organs	:	Bone, Stomach	nage to organs through prolonged or repeate
A3363	Sillent	•	exposure.	hage to organs through protonged of repeate
Repea	ated dose toxicity			
<u>Comp</u>	onents:			
Cellul	ose:			
Specie	es	:	Rat	
NOAE		:	>= 9.000 mg/kg	g
Applic	ation Route	:	Ingestion	-
	ure time	:	90 Days	
Alend	ronate:			
Specie	es	:	Rat	
NOAE	L	:	2,5 mg/kg	
LOAE	L	:	> 2,5 mg/kg	
Applic	ation Route	:	Intravenous	
	ure time	:	53 Weeks	
Target	t Organs	:	Stomach	
Specie		:	Dog	
LOAE		:	0,01 mg/kg	
	ation Route	:	Intravenous	
	ure time	:	3 y	
Target	t Organs	:	Stomach, Bone	e, Kidney
Specie		:	Dog	
NOAE		:	2 mg/kg	
LOAE		:	4 mg/kg	
	ation Route		Oral	
	ure time	:	53 Weeks	
-	t Organs	:	Kidney	
-	assified based on av	ailable	information.	
	onents:			
Alend	ronate:			
Not ap	oplicable			
Exper	ience with human e	xposi	ıre	
	onents:			

Alendronate:



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Eye contact : Ingestion :			 Symptoms: Severe irritation Symptoms: Gastrointestinal disturbance, musculoskeletal pain 		
ECTION 1	12. ECOLOGICAL INFO	DRN	IATION		
Ecoto	xicity				
<u>Comp</u>	onents:				
Cellul Toxicit	ose: y to fish	:	Exposure time: 48	ipes (Japanese medaka)): > 100 mg/l 3 h on data from similar materials	
	ronate: y to fish	:	LC50 (Pimephale Exposure time: 96 Method: OECD T		
			LC50 (Oncorhync Exposure time: 96 Method: FDA 4.1		
	y to daphnia and other c invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: OECD T		
Toxicit plants	y to algae/aquatic	:	ErC50 (Pseudokin mg/l Exposure time: 72 Method: OECD T		
			NOEC (Pseudokin Exposure time: 72 Method: OECD T		
Toxicit icity)	y to fish (Chronic tox-	:	NOEC (Pimephal Exposure time: 32 Method: OECD T		
			LOEC (Pimephale Exposure time: 32 Method: OECD T		
	y to daphnia and other c invertebrates (Chron- city)	:	NOEC (Daphnia r Exposure time: 2 [/] Method: OECD T		
Persis	tence and degradabili	ity			
<u>Comp</u>	onents:				
Cellul Biodeg	ose: gradability	:	Result: Readily bi	odegradable.	



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Alend	dronate:				
Biodegradability		Biodegrada	: Result: Readily biodegradable. Biodegradation: 70,3 % Exposure time: 7 d		
Stabil	ity in water		Degradation half life (DT50): 375 d Method: OECD Test Guideline 111		
Bioad	ccumulative potentia	I			
<u>Com</u>	oonents:				
	dronate:				
	ion coefficient: n- ol/water	: log Pow: -1	,73		
Mobi	lity in soil				
No da	ata available				
Othe	r adverse effects				
No da	ata available				

Waste from residues		Do not dispose of waste into sewer.
		Dispose of in accordance with local regulations.
Contaminated packaging		Empty containers should be taken to an approved waste
		handling site for recycling or disposal.
		If not otherwise specified: Dispose of as unused product.

SECTION 14. TRANSPORT INFORMATION

International Regulations

Disposal methods

UNRTDG

Not regulated as a dangerous good

IATA-DGR Not regulated as a dangerous good

IMDG-Code Not regulated as a dangerous good

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable for product as supplied.

Domestic regulation

ANTT

Not regulated as a dangerous good

Special precautions for user

Not applicable





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Safet mixtu		nmental regulations/	s/legislation specific for the substance or	r		
Natio (LINA	•	ic Agents for Humans	s - : Not applicable			
Brazi Police		ntrolled by the Federa	al : Not applicable			
The ingredients of this product are reported in the following inventories:						

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

SECTION 16. OTHER INFORMATION

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Further information

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

Full text of other abbreviations

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



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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; 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; 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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