### SAFETY DATA SHEET



# Alendronate Liquid Formulation

Versio 2.13	on	Revision Date: 16.10.2020		S Number: 219-00016	Date of last issue: 13.09.2019 Date of first issue: 05.11.2014		
1. PR	1. PRODUCT AND COMPANY IDENTIFICATION						
Product name		:	Alendronate Liquid Formulation				
r	Manufacturer or supplier's details						
(	Company		:	Organon & Co.			
ŀ	Address		:	30 Hudson Street, 33nd floor Jersey City, New Jersey, U.S.A 07302			
٦	Telepho	one	:	551-430-6000			
E	Emerge	ncy telephone number	· :	215-631-6999			
E	E-mail a	address	:	EHSSTEWARD@	⊉organon.com		
Recommended use of the chemical and restrictions on use							

: Pharmaceutical

## 2. HAZARDS IDENTIFICATION

#### **GHS Classification**

Recommended use

Not a hazardous substance or mixture.

#### **GHS** label elements

Not a hazardous substance or mixture.

#### Other hazards which do not result in classification

None known.

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Substance / Mixture : Mixture

#### Components

Chemical name	CAS-No.	Concentration (% w/w)
Alendronate	121268-17-5	>= 0.1 -< 1

#### 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 In case of skin contact	:	If inhaled, remove to fresh air. Get medical attention. In case of contact, immediately flush skin with soap and plenty
		of water. Remove contaminated clothing and shoes.



Version 2.13	Revision Date: 16.10.2020		S Number: 219-00016	Date of last issue: 13.09.2019 Date of first issue: 05.11.2014		
In case of eye contact If swallowed Most important symptoms and effects, both acute and		:	Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse. Flush eyes with water as a precaution. Get medical attention if irritation develops and persists. If swallowed, DO NOT induce vomiting. Get medical attention. Rinse mouth thoroughly with water. None known.			
Pro	layed otection of first-aiders ites to physician	:	and use the recor when the potentia	ers should pay attention to self-protection, nmended personal protective equipment I for exposure exists (see section 8). cally and supportively.		
	FIGHTING MEASURES					
Suitable extinguishing media		:	Water spray Alcohol-resistant Carbon dioxide (C Dry chemical			
Unsuitable extinguishing media Specific hazards during fire- fighting Hazardous combustion prod- ucts Specific extinguishing meth- ods		:	None known. Exposure to comb Carbon oxides Metal oxides	pustion products may be a hazard to health.		
		:	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		
Special protective equipment for firefighters		:	In the event of fire	e, wear self-contained breathing apparatus. rective equipment.		
6. ACC	IDENTAL RELEASE MEAS	SUR	RES			
tive	rsonal precautions, protec- e equipment and emer- ncy procedures	:	Follow safe handl	ective equipment. ing advice (see section 7) and personal pro- recommendations (see section 8).		
Environmental precautions		:		he environment. akage or spillage if safe to do so.		

cannot be contained.

barriers).

:

Methods and materials for

containment and cleaning up

Prevent spreading over a wide area (e.g. by containment or oil

Local authorities should be advised if significant spillages

For large spills, provide dyking or other appropriate containment to keep material from spreading. If dyked material can

Retain and dispose of contaminated wash water.

Soak up with inert absorbent material.



Version 2.13	Revision Date: 16.10.2020		9S Number: 219-00016	Date of last issue: 13.09.2019 Date of first issue: 05.11.2014			
			Clean up remaining bent. Local or national in posal of this mate employed in the of mine which regular Sections 13 and 1	recovered material in appropriate container. ng materials from spill with suitable absor- regulations may apply to releases and dis- rial, as well as those materials and items leanup of releases. You will need to deter- ations are applicable. 5 of this SDS provide information regarding tional requirements.			
7. HANDI	LING AND STORAGE						
Tech	nical measures	:		measures under EXPOSURE SONAL PROTECTION section.			
Loca	I/Total ventilation	:	: Use only with adequate ventilation.				
Advi	ce on safe handling	:	Handle in accorda practice, based of sessment				
Cond	ditions for safe storage	:		abelled containers. ce with the particular national regulations.			
Mate	erials to avoid			the following product types:			

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Alendronate	121268-17-5	TWA	20 µg/m3 (OEB 3)	Internal
		Wipe limit	200 µg/100 cm <sup>2</sup>	Internal

Engineering measures :	Use appropriate engineering controls and manufacturing technologies to control airborne concentrations (e.g., drip- less quick connections). 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.
Barconal protoctive equipment	

#### Personal protective equipment

Respiratory protection : If adequate local exhaust ventilation is not available or expo-



Version 2.13	Revision Date: 16.10.2020	SDS Number: 28219-00016	Date of last issue: 13.09.2019 Date of first issue: 05.11.2014				
Filter type Hand protection			ent demonstrates exposures outside the rec- idelines, use respiratory protection. pe				
Ma	aterial	: Chemical-resi	stant gloves				
Remarks Eye protection		: Wear safety g If the work env mists or aeros Wear a facesh	<ul> <li>Consider double gloving.</li> <li>Wear safety glasses with side shields or goggles.</li> <li>If the work environment or activity involves dusty conditions, mists or aerosols, wear the appropriate goggles.</li> <li>Wear a faceshield or other full face protection if there is a potential for direct contact to the face with dusts, mists, or</li> </ul>				
Skin and body protection		: Work uniform Additional boo task being per posable suits) Use appropria	Work uniform or laboratory coat. 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.				
Hygiene measures		: If exposure to eye flushing sy ing place. When using d Wash contam The effective of engineering co appropriate de industrial hygi	chemical is likely during typical use, provide ystems and safety showers close to the work- o not eat, drink or smoke. Inated clothing before re-use. Operation of a facility should include review of ontrols, proper personal protective equipment, egowning and decontamination procedures, ene monitoring, medical surveillance and the strative controls.				

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	liquid
Colour	:	clear
Odour	:	No data available
Odour Threshold	:	No data available
рН	:	6.4 - 7.2
Melting point/freezing point	:	No data available
Initial boiling point and boiling range	:	100 °C
Flash point	:	No data available
Evaporation rate	:	No data available
Flammability (solid, gas)	:	Not applicable
Flammability (liquids)	:	No data available

## SAFETY DATA SHEET



# Alendronate Liquid Formulation

Vers 2.13		Revision Date: 16.10.2020		S Number: 219-00016	Date of last issue: 13.09.2019 Date of first issue: 05.11.2014
		explosion limit / Upper bility limit	:	No data available	9
		explosion limit / Lower bility limit	:	No data available	)
	Vapour	pressure	:	No data available	
	Relativ	e vapour density	:	No data available	)
	Relativ	e density	:	No data available	
	Density	,	:	No data available	
	Solubili Wat	ity(ies) er solubility	:	soluble	
	Partitio octanol	n coefficient: n-	:	Not applicable	
		nition temperature	:	No data available	9
	Decom	position temperature	:	No data available	)
	Viscosi Visc	ty cosity, kinematic	:	No data available	
	Explosi	ve properties	:	Not explosive	
	Oxidizii Particle	ng properties	:		r mixture is not classified as oxidizing.
	Farticle	5 2126	•	Not applicable	

#### **10. STABILITY AND REACTIVITY**

Reactivity	:	Not classified as a reactivity hazard.
Chemical stability	:	Stable under normal conditions.
Possibility of hazardous reac-	:	Can react with strong oxidizing agents.
tions		
Conditions to avoid	:	None known.
Incompatible materials	:	Oxidizing agents
Hazardous decomposition	:	No hazardous decomposition products are known.
products		

#### 11. TOXICOLOGICAL INFORMATION

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

#### Acute toxicity

Not classified based on available information.



rsion I 3	Revision Date: 16.10.2020	SDS Number: 28219-00016	Date of last issue: 13.09.2019 Date of first issue: 05.11.2014
<u>Comp</u>	oonents:		
Alend	Ironate:		
Acute	oral toxicity	: LD50 (Rat): \$	552 - 626 mg/kg
		LD50 (Mouse	e): 966 - 1,280 mg/kg
Acute	inhalation toxicity	: Remarks: No	o data available
Acute	dermal toxicity	: Remarks: No	o data available
-	corrosion/irritation assified based on ava	ailable information.	
Comp	oonents:		
Alend	Ironate:		
Speci		: Rabbit	
Rema	rks	: Severe skin	irritation
	us eye damage/eye assified based on ava		
<u>Comp</u>	oonents:		
Alend	Ironate:		
Speci		: Rabbit	
Resul	t	: Severe irritat	ion
Respi	ratory or skin sens	tisation	
Skin s	sensitisation		
Not cl	assified based on av	ailable information.	
-	ratory sensitisation		
	assified based on av	ailable information.	
Comp	oonents:		
Alend	Ironate:		
Rema	rks	: No data avai	lable
Germ	cell mutagenicity		
Not cl	assified based on av	ailable information.	
<u>Comp</u>	oonents:		
Alend	Ironate:		
Genot	oxicity in vitro		Ikaline elution assay rat hepatocytes tive
			acterial reverse mutation assay (AMES) tivation: with and without metabolic activation



Version 2.13	Revision Date: 16.10.2020	SDS Number: 28219-00016	Date of last issue: 13.09.2019 Date of first issue: 05.11.2014
		Result: negati	ve
		Test Type: In Result: negati	vitro mammalian cell gene mutation test ve
			romosomal aberration Chinese hamster ovary cells Ical
Geno	toxicity in vivo	: Test Type: Ch Species: Mou Result: negati	
	<b>nogenicity</b> lassified based on avai	able information.	
Com	oonents:		
Speci Applie	dronate: es cation Route sure time	: Rat, male : Oral : 2 Years : 1 mg/kg body	weight
Targe Rema	et Organs arks	: 3.75 mg/kg bc : Thyroid : The mechanis mans.	dy weight m or mode of action may not be relevant in hu-
-	oductive toxicity lassified based on avai	able information.	
Com	oonents:		
Alend	dronate:		
Effect	s on fertility	Application Ro Fertility: NOA	male and female
Effect ment	s on foetal develop-	Symptoms: Re weight, Skelet	female bute: Oral al Toxicity: LOAEL: 1 - 15 mg/kg body weight educed number of viable fetuses, Reduced body al malformations otoxic effects and adverse effects on the off- etected. velopment
		Application Ro	oute: Oral al Toxicity: NOAEL: 40 mg/kg body weight



3	Revision Date: 16.10.2020	-	OS Number: 219-00016	Date of last issue: 13.09.2019 Date of first issue: 05.11.2014
Repro sessn	oductive toxicity - As- nent	:	Some evidenc animal experir	e of adverse effects on development, based c nents.
	• - single exposure assified based on ava	ilable	information.	
Comp	oonents:			
Alend	Ironate:			
Asses	ssment	:	May cause res	spiratory irritation.
	- repeated exposur assified based on ava		information.	
<u>Comp</u>	oonents:			
Alenc	Ironate:			
	t Organs ssment	:	Bone, Stomac May cause da exposure.	h, Kidney mage to organs through prolonged or repeate
Repe	ated dose toxicity			
<u>Comp</u>	oonents:			
Alenc	Ironate:			
Craci			Rat	
Speci		:	2 E ma/ka	
NOAE	EL	:	2.5 mg/kg > 2 5 mg/kg	
NOAE	EL	:	2.5 mg/kg > 2.5 mg/kg Intravenous	
NOAE LOAE Applic Expos	EL L cation Route sure time		> 2.5 mg/kg Intravenous 53 Weeks	
NOAE LOAE Applic Expos	EL L cation Route		> 2.5 mg/kg Intravenous	
NOAE LOAE Applic Expose Targe	EL L cation Route sure time t Organs es		> 2.5 mg/kg Intravenous 53 Weeks Stomach Dog	
NOAE LOAE Applic Expos Targe Specie LOAE	EL L cation Route sure time t Organs es L		<ul> <li>&gt; 2.5 mg/kg</li> <li>Intravenous</li> <li>53 Weeks</li> <li>Stomach</li> <li>Dog</li> <li>0.01 mg/kg</li> </ul>	
NOAE LOAE Applic Expose Targe Specie LOAE Applic	EL L cation Route sure time t Organs es L cation Route		<ul> <li>&gt; 2.5 mg/kg</li> <li>Intravenous</li> <li>53 Weeks</li> <li>Stomach</li> <li>Dog</li> <li>0.01 mg/kg</li> <li>Intravenous</li> </ul>	
NOAE LOAE Applic Expose Targe Speci LOAE Applic Expose	EL L cation Route sure time t Organs es L		<ul> <li>&gt; 2.5 mg/kg</li> <li>Intravenous</li> <li>53 Weeks</li> <li>Stomach</li> <li>Dog</li> <li>0.01 mg/kg</li> </ul>	e, Kidney
NOAE LOAE Applic Expose Targe Speci LOAE Applic Expose	EL L cation Route sure time t Organs es L cation Route sure time t Organs		<ul> <li>&gt; 2.5 mg/kg</li> <li>Intravenous</li> <li>53 Weeks</li> <li>Stomach</li> <li>Dog</li> <li>0.01 mg/kg</li> <li>Intravenous</li> <li>3 yr</li> </ul>	e, Kidney
NOAE LOAE Applic Expos Targe Speci LOAE Applic Expos Targe Speci NOAE	EL L cation Route sure time t Organs es L cation Route sure time t Organs es		<ul> <li>&gt; 2.5 mg/kg</li> <li>Intravenous</li> <li>53 Weeks</li> <li>Stomach</li> <li>Dog</li> <li>0.01 mg/kg</li> <li>Intravenous</li> <li>3 yr</li> <li>Stomach, Bon</li> <li>Dog</li> <li>2 mg/kg</li> </ul>	e, Kidney
NOAE LOAE Applic Expos Targe Speci LOAE Applic Expos Targe Speci NOAE LOAE	EL L sation Route sure time t Organs es L sation Route sure time t Organs EL L		<ul> <li>&gt; 2.5 mg/kg</li> <li>Intravenous</li> <li>53 Weeks</li> <li>Stomach</li> <li>Dog</li> <li>0.01 mg/kg</li> <li>Intravenous</li> <li>3 yr</li> <li>Stomach, Bon</li> <li>Dog</li> <li>2 mg/kg</li> <li>4 mg/kg</li> </ul>	e, Kidney
NOAE LOAE Applic Expos Targe Speci LOAE Applic Expos Targe Speci NOAE LOAE	EL L sation Route sure time t Organs es L sation Route sure time t Organs es EL L sation Route		<ul> <li>&gt; 2.5 mg/kg</li> <li>Intravenous</li> <li>53 Weeks</li> <li>Stomach</li> <li>Dog</li> <li>0.01 mg/kg</li> <li>Intravenous</li> <li>3 yr</li> <li>Stomach, Bon</li> <li>Dog</li> <li>2 mg/kg</li> <li>4 mg/kg</li> <li>Oral</li> </ul>	e, Kidney
NOAE LOAE Applic Expos Targe Speci LOAE Applic Expos Targe Speci NOAE LOAE Applic Expos	EL L sation Route sure time t Organs es L sation Route sure time t Organs EL L		<ul> <li>&gt; 2.5 mg/kg</li> <li>Intravenous</li> <li>53 Weeks</li> <li>Stomach</li> <li>Dog</li> <li>0.01 mg/kg</li> <li>Intravenous</li> <li>3 yr</li> <li>Stomach, Bon</li> <li>Dog</li> <li>2 mg/kg</li> <li>4 mg/kg</li> </ul>	e, Kidney
NOAE LOAE Applic Expos Targe Speci LOAE Applic Expos Targe Speci NOAE LOAE Applic Expos Targe	EL L sation Route sure time t Organs es L sation Route sure time t Organs es EL L sation Route sure time		<ul> <li>&gt; 2.5 mg/kg</li> <li>Intravenous</li> <li>53 Weeks</li> <li>Stomach</li> <li>Dog</li> <li>0.01 mg/kg</li> <li>Intravenous</li> <li>3 yr</li> <li>Stomach, Bon</li> <li>Dog</li> <li>2 mg/kg</li> <li>4 mg/kg</li> <li>Oral</li> <li>53 Weeks</li> </ul>	e, Kidney
NOAE LOAE Applic Expos Targe Speci LOAE Applic Expos Targe Speci NOAE LOAE Applic Expos Targe	EL L sation Route sure time t Organs es L sation Route sure time t Organs es EL L sation Route sure time t Organs	ilable	<ul> <li>&gt; 2.5 mg/kg</li> <li>Intravenous</li> <li>53 Weeks</li> <li>Stomach</li> <li>Dog</li> <li>0.01 mg/kg</li> <li>Intravenous</li> <li>3 yr</li> <li>Stomach, Bon</li> <li>Dog</li> <li>2 mg/kg</li> <li>4 mg/kg</li> <li>Oral</li> <li>53 Weeks</li> <li>Kidney</li> </ul>	e, Kidney



ersion .13	Revision Date: 16.10.2020		0S Number: 219-00016	Date of last issue: 13.09.2019 Date of first issue: 05.11.2014		
Evno	ianaa with human ayn		120			
-	ience with human exp	ost	ire			
<u>Produ</u>						
Inhala		:		spiratory tract irritation		
	ontact ontact	÷		ay cause, Skin irritation		
Ingest		÷	<ul> <li>Symptoms: May cause, Eye irritation</li> <li>Symptoms: Gastrointestinal disturbance, musculoskeletal pain</li> </ul>			
-	oonents:	-	e)p.ee			
Alend	Ironate:					
Inhala	tion	:	Symptoms: res	spiratory tract irritation		
	ontact	:		vere irritation, skin blistering		
Eye c		:	Symptoms: Se			
Ingest	ion	:	Symptoms: Ga	strointestinal disturbance, musculoskeletal pa		
2. ECOLO	DGICAL INFORMATION	N				
Ecoto	xicity					
Comp	onents:					
Alend	ronate:					
	ty to fish	:	Exposure time	ales promelas (fathead minnow)): 27 mg/l : 96 h ) Test Guideline 203		
			LC50 (Oncorh Exposure time Method: FDA			
	ty to daphnia and other	:		a magna (Water flea)): 170 mg/l		
aquat	c invertebrates		Exposure time Method: OEC	: 48 h ) Test Guideline 202		
Toxici	ty to algae/aquatic	:	ErC50 (Pseude	okirchneriella subcapitata (green algae)): > 10		
plants			mg/l	70 1		
			Exposure time Method: OEC	) Test Guideline 201		
			Exposure time	okirchneriella subcapitata (green algae)): 4 m( : 72 h ) Test Guideline 201		
Tavia	ty to figh (Chronic to)			poloo promoloo (fotbood minnowi)), 4.4 mm/		
l oxici icity)	ty to fish (Chronic tox-	:	Exposure time	hales promelas (fathead minnow)): 1.1 mg/l : 32 d ) Test Guideline 210		
			Exposure time	nales promelas (fathead minnow)): 1.9 mg/l : 32 d ) Test Guideline 210		
	ty to daphnia and other			ia magna (Water flea)): 4.7 mg/l		



Version 2.13	Revision Date: 16.10.2020		DS Number: 3219-00016	Date of last issue: 13.09.2019 Date of first issue: 05.11.2014
ic to	ic toxicity)		Method: OECD T	est Guideline 211
Pers	sistence and degradabi	ility		
Con	nponents:			
-	ndronate: legradability	:	Result: Readily b Biodegradation: Exposure time: 7	70.3 %
Stat	ility in water	:	Degradation half Method: OECD T	
Bio	accumulative potential			
<u>Con</u>	nponents:			
Part	ndronate: ition coefficient: n- nol/water	:	log Pow: -1.73	
	<b>ility in soil</b> data available			
	<b>er adverse effects</b> data available			
13. DISP	OSAL CONSIDERATIO	NS		
Dis	oosal methods			

•		
Waste from residues	:	Dispose of in accordance with local regulations.
Contaminated packaging		Empty containers should be taken to an approved waste han-
		dling site for recycling or disposal.
		If not otherwise specified: Dispose of as unused product.

#### 14. TRANSPORT INFORMATION

#### **International Regulations**

**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.



Version	Revision Date:	SDS Number:	Date of last issue: 13.09.2019
2.13	16.10.2020	28219-00016	Date of first issue: 05.11.2014

#### 15. REGULATORY INFORMATION

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

# Workplace Safety and Health Act and Workplace Safety and Health (General Provisions) Regulations: This product is subjected to the SDS, labelling, PEL and other requirements in the Act/Regulations.

Environmental Protection and Management Act and Environmental Protection and Management (Hazard- ous Substances) Regulations	:	Not applicable
Fire Safety (Petroleum and Flammable Materials) Regulations	:	Not applicable

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

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

#### **16. OTHER INFORMATION**

#### 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/
Date format	:	dd.mm.yyyy

#### Full text of other abbreviations

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;



Version	Revision Date:	SDS Number:	Date of last issue: 13.09.2019
2.13	16.10.2020	28219-00016	Date of first issue: 05.11.2014

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.

SG / EN