SAFETY DATA SHEET



Alendronate Liquid Formulation

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1. PF	1. PRODUCT AND COMPANY IDENTIFICATION					
	Produc	t name	:	Alendronate Liqu	id Formulation	
	Manufa	acturer or supplier's c	letai	ils		
	Company		:	Organon & Co.		
	Address		:	JL Raya Pandaan KM. 48 Pandaan, Jawa Timur - Indonesia		
	Telephone		:	551-430-6000		
	Emergency telephone number		r:	215-631-6999		
	E-mail	address	:	EHSSTEWARD	@organon.com	
	Recommended use of the chemical and restrictions on use					

: Pharmaceutical

2. HAZARDS IDENTIFICATION

Recommended use

GHS Classification

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
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Components

Chemical name	CAS-No.	Concentration (% w/w)
Alendronate	121268-17-5	< 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	:	If inhaled, remove to fresh air. Get medical attention.
In case of skin contact	:	In case of contact, immediately flush skin with soap and plenty of water. Remove contaminated clothing and shoes.



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In case of eye contact If swallowed Most important symptoms and effects, both acute and		:	Flush eyes with w Get medical atter If swallowed, DO Get medical atter	fore reuse. shoes before reuse. vater as a precaution. tion if irritation develops and persists. NOT induce vomiting.			
Pr	layed otection of first-aiders	:	First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment when the potential for exposure exists (see section 8).				
	otes to physician	•	Treat Symptomati	cally and supportively.			
-	itable extinguishing media	:	Water spray Alcohol-resistant Carbon dioxide (0				
me Sp	Unsuitable extinguishing media Specific hazards during fire- fighting Hazardous combustion prod- ucts		Dry chemical None known. Exposure to coml	pustion products may be a hazard to health.			
			Carbon oxides Metal oxides				
od		cumstances and the surrounding environme Use water spray to cool unopened container		he surrounding environment. o cool unopened containers. ged containers from fire area if it is safe to do			
	pecial protective equipment firefighters	:		e, wear self-contained breathing apparatus. tective equipment.			
6. ACC	6. ACCIDENTAL RELEASE MEASURES						
tiv	ersonal precautions, protec- e equipment and emer- ncy procedures	:	Follow safe hand	tective equipment. ing advice (see section 7) and personal pro- recommendations (see section 8).			
En	vironmental precautions	:		he environment. akage or spillage if safe to do so. g over a wide area (e.g. by containment or oil			

Prevent spreading over a wide area (e.g. by containment or oil barriers). 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 : Soak up with inert absorbent material. For large spills, provide dyking or other appropriate containment to keep material from spreading. If dyked material can



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		Clean up bent. Local or r posal of t employed mine whi Sections	ed, store recovered material in appropriate container. remaining materials from spill with suitable absor- national regulations may apply to releases and dis- his material, as well as those materials and items I in the cleanup of releases. You will need to deter- ch regulations are applicable. 13 and 15 of this SDS provide information regarding cal or national requirements.
7. HANDL	ING AND STORAGE		
Tech	nical measures		neering measures under EXPOSURE DLS/PERSONAL PROTECTION section.
Local	/Total ventilation	: Use only	with adequate ventilation.
Advic	e on safe handling	Do not sy Avoid cor Avoid pro Handle ir practice, sessmen Take car environm	htact with eyes. Honged or repeated contact with skin. accordance with good industrial hygiene and safety based on the results of the workplace exposure as- t t to prevent spills, waste and minimize release to the ent.
Cond	litions for safe storage		roperly labelled containers.
Mate	rials to avoid	: Do not st	ore with the following product types: idizing agents

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 ²	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.
Dersonal protective equipment	

Personal protective equipment

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



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Filter type Hand protection			ent demonstrates exposures outside the rec- uidelines, use respiratory protection.		
Ма	aterial	: Chemical-resi	stant gloves		
Remarks Eye protection		: Wear safety g If the work en mists or aeros Wear a facesł	 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 		
Skin and body protection		: Work uniform Additional boo task being per posable suits)	or laboratory coat. ly garments should be used based upon the formed (e.g., sleevelets, apron, gauntlets, dis- to avoid exposed skin surfaces. Ite degowning techniques to remove potentially clothing		
Hygie	ne measures	: If exposure to eye flushing s 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

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		explosion limit / Upper bility limit	:	No data available	
		explosion limit / Lower bility limit	:	No data available	•
	Vapour	pressure	:	No data available)
	Relativ	e vapour density	:	No data available	9
	Relativ	e density	:	No data available)
	Density	,	:	No data available)
	Solubili Wat	ty(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	9
	Explosi	ve properties	:	Not explosive	
		ng properties	:		r mixture is not classified as oxidizing.
	Particle	e size	:	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.

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<u>Comp</u>	onents:		
Alend	ronate:		
Acute	oral toxicity	: LD50 (Rat): 5	552 - 626 mg/kg
		LD50 (Mouse	e): 966 - 1,280 mg/kg
Acute	inhalation toxicity	: Remarks: No	data available
Acute	dermal toxicity	: Remarks: No	data available
	corrosion/irritation assified based on ava	ailable information.	
<u>Comp</u>	onents:		
Alend	ronate:		
Specie		: Rabbit	
Rema	rks	: Severe skin i	rritation
	us eye damage/eye assified based on ava		
<u>Comp</u>	onents:		
Alend	ronate:		
Specie		: Rabbit	
Result	t	: Severe irritat	ion
Respi	ratory or skin sensi	tisation	
	sensitisation		
	assified based on ava		
-	ratory sensitisation assified based on ava		
	onents:		
	ronate:	. No dete evel	
Rema	rks	: No data avail	able
Germ	cell mutagenicity		
Not cla	assified based on ava	ailable information.	
<u>Comp</u>	onents:		
Alend	ronate:		
Genot	oxicity in vitro		lkaline elution assay rat hepatocytes ive
			acterial reverse mutation assay (AMES)



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		Result: negativ	/e
		Test Type: In N Result: negativ	vitro mammalian cell gene mutation test
			romosomal aberration Chinese hamster ovary cells cal
Geno	toxicity in vivo	: Test Type: Ch Species: Mous Result: negativ	
	i nogenicity lassified based on avai	able information.	
Com	ponents:		
Alene	dronate:		
	ies cation Route sure time	: Rat, male : Oral : 2 Years : 1 mg/kg body : 3.75 mg/kg bo	
Targe Rema	et Organs arks	: Thyroid	m or mode of action may not be relevant in hu-
-	oductive toxicity lassified based on avai	able information.	
Com	ponents:		
Alend	dronate:		
Effect	ts on fertility	Application Ro Fertility: NOAE	male and female
Effect ment	ts on foetal develop-	Symptoms: Re weight, Skelet Result: Embry spring were de	iemale ute: Oral I 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.
		Test Type: De Species: Rabb Application Ro Developmenta Result: No adv	it, female ute: Oral I Toxicity: NOAEL: 40 mg/kg body weight



3	Revision Date: 2020/10/16		OS Number: 203-00016	Date of last issue: 2019/09/13 Date of first issue: 2014/11/05
Repro sessn	oductive toxicity - As- nent	:	Some evidenc animal experir	e of adverse effects on development, based on nents.
	- single exposure assified based on ava	ilabla	information	
	onents:	liable	intormation.	
Alend	Ironate:			
	ssment	:	May cause res	spiratory irritation.
	- repeated exposure assified based on ava		information	
	onents:	liable	inionnation.	
	Ironate:			
Targe	t Organs ssment	:	Bone, Stomac May cause da exposure.	h, Kidney mage to organs through prolonged or repeate
Repe	ated dose toxicity			
Comp	oonents:			
Alenc	Ironate:			
Speci		:	Rat	
NOAE	EL	:	2.5 mg/kg	
NOAE	EL EL	:	2.5 mg/kg > 2.5 mg/kg	
NOAE LOAE Applic	EL EL cation Route		2.5 mg/kg > 2.5 mg/kg Intravenous	
NOAE LOAE Applic Expos	EL EL		2.5 mg/kg > 2.5 mg/kg	
NOAE LOAE Applic Expose Targe	EL EL cation Route sure time t Organs es		2.5 mg/kg > 2.5 mg/kg Intravenous 53 Weeks Stomach Dog	
NOAE LOAE Applic Expos Targe Speci LOAE	EL EL sation Route sure time t Organs es EL		2.5 mg/kg > 2.5 mg/kg Intravenous 53 Weeks Stomach Dog 0.01 mg/kg	
NOAE LOAE Applic Expos Targe Speci LOAE Applic	EL EL cation Route sure time t Organs es EL cation Route		2.5 mg/kg > 2.5 mg/kg Intravenous 53 Weeks Stomach Dog 0.01 mg/kg Intravenous	
NOAE LOAE Applic Expose Targe Speci LOAE Applic Expose	EL EL sation Route sure time t Organs es EL		2.5 mg/kg > 2.5 mg/kg Intravenous 53 Weeks Stomach Dog 0.01 mg/kg	e, Kidney
NOAE LOAE Applic Expose Targe Specie LOAE Applic Expose Targe Specie	EL EL cation Route sure time t Organs es EL cation Route sure time t Organs es		2.5 mg/kg > 2.5 mg/kg Intravenous 53 Weeks Stomach Dog 0.01 mg/kg Intravenous 3 yr Stomach, Bon Dog	e, Kidney
NOAE LOAE Applic Expose Targe Specie LOAE Applic Expose Targe Specie NOAE	EL EL sation Route sure time t Organs es EL sation Route sure time t Organs es EL		2.5 mg/kg > 2.5 mg/kg Intravenous 53 Weeks Stomach Dog 0.01 mg/kg Intravenous 3 yr Stomach, Bon Dog 2 mg/kg	e, Kidney
NOAE LOAE Applic Expose Targe Specie NOAE LOAE	EL EL cation Route sure time it Organs es EL cation Route sure time it Organs EL EL		2.5 mg/kg > 2.5 mg/kg Intravenous 53 Weeks Stomach Dog 0.01 mg/kg Intravenous 3 yr Stomach, Bon Dog 2 mg/kg 4 mg/kg	e, Kidney
NOAE LOAE Applic Expose Targe Specie LOAE Applic Expose Targe Specie NOAE LOAE Applic	EL EL Sation Route Sure time t Organs es EL Sure time t Organs EL EL Sution Route Sure Sure Sure Sure Sure Sure Sure Sure		2.5 mg/kg > 2.5 mg/kg Intravenous 53 Weeks Stomach Dog 0.01 mg/kg Intravenous 3 yr Stomach, Bon Dog 2 mg/kg 4 mg/kg Oral	e, Kidney
NOAE LOAE Applic Expose Targe Speci LOAE Applic Expose Targe Speci NOAE LOAE Applic Expose Targe	EL EL cation Route sure time it Organs es EL cation Route sure time it Organs EL EL		2.5 mg/kg > 2.5 mg/kg Intravenous 53 Weeks Stomach Dog 0.01 mg/kg Intravenous 3 yr Stomach, Bon Dog 2 mg/kg 4 mg/kg	e, Kidney
NOAE LOAE Applic Expose Targe Specie NOAE LOAE Specie NOAE LOAE Applic Expose Targe	EL EL Eation Route Sure time It Organs es EL Eation Route Sure time It Organs EL EL Eation Route Sure time		2.5 mg/kg > 2.5 mg/kg Intravenous 53 Weeks Stomach Dog 0.01 mg/kg Intravenous 3 yr Stomach, Bon Dog 2 mg/kg 4 mg/kg Oral 53 Weeks	e, Kidney
NOAE LOAE Applic Expose Targe Specie LOAE Applic Expose Targe Specie NOAE LOAE Applic Expose Targe	EL EL Eation Route sure time t Organs es EL eation Route sure time t Organs es EL EL cation Route sure time t Organs	ilable	2.5 mg/kg > 2.5 mg/kg Intravenous 53 Weeks Stomach Dog 0.01 mg/kg Intravenous 3 yr Stomach, Bon Dog 2 mg/kg 4 mg/kg Oral 53 Weeks Kidney	e, Kidney



ersion 13	Revision Date: 2020/10/16		0S Number: 203-00016	Date of last issue: 2019/09/13 Date of first issue: 2014/11/05
Expe	rience with human exp	osl	ire	
-	-			
<u>Produ</u>			a	
Inhala		÷		iratory tract irritation
	contact ontact	÷		cause, Skin irritation cause, Eye irritation
Ingest		:		trointestinal disturbance, musculoskeletal pa
•	oonents:	•		
	Ironate:			
Inhala			Symptoms: resp	iratory tract irritation
	contact	:		ere irritation, skin blistering
	ontact	:	Symptoms: Sev	
Ingest		:	Symptoms: Gastrointestinal disturbance, musculoskeletal pa	
2. ECOL	OGICAL INFORMATIO	N		
Ecoto	oxicity			
Comp	oonents:			
	Ironate:			
	ity to fish	:	LC50 (Pimenhal	es promelas (fathead minnow)): 27 mg/l
TOXICI		•	Exposure time:	
			LC50 (Oncorhyr Exposure time: 9 Method: FDA 4.	
	ity to daphnia and other	:	EC50 (Daphnia	magna (Water flea)): 170 mg/l
aquat	ic invertebrates		Exposure time:	
			Method: OECD	Test Guideline 202
Tavia	ity to algae/aquatic	:	ErC50 (Pseudoł	inchentialle autoentitate (annen alaree)) 10
				archneriella subcapitata (green algae)): > 10
plants			mg/l	
			Exposure time:	72 h
			Exposure time:	
			Exposure time: Method: OECD	72 h Test Guideline 201
			Exposure time: Method: OECD NOEC (Pseudol	72 h Test Guideline 201 kirchneriella subcapitata (green algae)): 4 m
			Exposure time: Method: OECD NOEC (Pseudol Exposure time:	72 h Test Guideline 201 kirchneriella subcapitata (green algae)): 4 mg
plants	3		Exposure time: Method: OECD NOEC (Pseudol Exposure time: Method: OECD	72 h Test Guideline 201 kirchneriella subcapitata (green algae)): 4 mg 72 h Test Guideline 201
plants Toxici		:	Exposure time: Method: OECD NOEC (Pseudol Exposure time: Method: OECD NOEC (Pimepha	72 h Test Guideline 201 kirchneriella subcapitata (green algae)): 4 mg 72 h Test Guideline 201 ales promelas (fathead minnow)): 1.1 mg/l
plants	3	:	Exposure time: Method: OECD NOEC (Pseudol Exposure time: Method: OECD NOEC (Pimepha Exposure time:	72 h Test Guideline 201 kirchneriella subcapitata (green algae)): 4 mg 72 h Test Guideline 201 ales promelas (fathead minnow)): 1.1 mg/l 32 d
plants Toxici	3	:	Exposure time: Method: OECD NOEC (Pseudol Exposure time: Method: OECD NOEC (Pimepha Exposure time:	Test Guideline 201 kirchneriella subcapitata (green algae)): 4 mg 72 h Test Guideline 201 ales promelas (fathead minnow)): 1.1 mg/l
plants Toxici	3	:	Exposure time: Method: OECD NOEC (Pseudol Exposure time: Method: OECD NOEC (Pimepha Exposure time: Method: OECD	72 h Test Guideline 201 kirchneriella subcapitata (green algae)): 4 mg 72 h Test Guideline 201 ales promelas (fathead minnow)): 1.1 mg/l 32 d
plants Toxici	3	:	Exposure time: Method: OECD NOEC (Pseudol Exposure time: Method: OECD NOEC (Pimepha Exposure time: Method: OECD LOEC (Pimepha Exposure time:	72 h Test Guideline 201 kirchneriella subcapitata (green algae)): 4 mg 72 h Test Guideline 201 ales promelas (fathead minnow)): 1.1 mg/l 32 d Test Guideline 210 les promelas (fathead minnow)): 1.9 mg/l 32 d
plants Toxici	3	:	Exposure time: Method: OECD NOEC (Pseudol Exposure time: Method: OECD NOEC (Pimepha Exposure time: Method: OECD LOEC (Pimepha Exposure time:	72 h Test Guideline 201 kirchneriella subcapitata (green algae)): 4 mg 72 h Test Guideline 201 ales promelas (fathead minnow)): 1.1 mg/l 32 d Test Guideline 210 les promelas (fathead minnow)): 1.9 mg/l
plants Toxici icity)	3	:	Exposure time: Method: OECD NOEC (Pseudol Exposure time: Method: OECD NOEC (Pimepha Exposure time: Method: OECD LOEC (Pimepha Exposure time: Method: OECD	72 h Test Guideline 201 kirchneriella subcapitata (green algae)): 4 mg 72 h Test Guideline 201 ales promelas (fathead minnow)): 1.1 mg/l 32 d Test Guideline 210 les promelas (fathead minnow)): 1.9 mg/l 32 d



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ic to	(icity)		Method: OECD T	est Guideline 211
Pers	istence and degradab	ility		
Com	ponents:			
	dronate: egradability	:	Result: Readily b Biodegradation: Exposure time: 7	70.3 %
Stab	ility in water	:	Degradation half Method: OECD T	
Bioa	ccumulative potential			
Com	ponents:			
Parti	dronate: tion coefficient: n- nol/water	:	log Pow: -1.73	
	ility in soil ata available			
	er adverse effects ata available			
13. DISP	OSAL CONSIDERATIO	NS		
Disp	osal methods			

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



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15. REGULATORY INFORMATION

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

Minister of Industry Regulation No. 23/M-IND/PER/4/2013 concerning the Revision of Minister of Industry Regulation No. 87/M-IND/PER/9/2009 concerning Globally Harmonized System of Classification and Labelling of Chemicals.

Regulation of the Minister of Health No. 472 of 1996 on the Safeguarding of Sub	stances
Hazardous to Health	

	Hazardous substances	that must be registered	:	Not applicable
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Government Regulation No. 74 of 2001 on the Management of Hazardous and Toxic Substances

Hazardous substances approved for use	:	Not applicable
Prohibited substances	:	Not applicable
Restricted substances	:	Not applicable

Regulation of the Minister of Trade No. 44 of 2009 on Procurement, Distribution and Supervision of Hazardous Materials

Type of Hazardous Materials Restricted to Import, : Not applicable Distribution and Supervision

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 Agency, http://echa.europa.eu/
Date format	:	yyyy/mm/dd

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



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x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

ID / EN