SAFETY DATA SHEET



Alendronate Liquid Formulation

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SECTION	I 1. PRODUCT AND C	ОМРА		CATION	
Product name		:	Alendronate Liquid Formulation		
Man	ufacturer or supplier	's detai	ls		
Company		:	Organon & C	0.	
Address		:	Rua Treze de Maio, 1161 Campinas, São Paulo, Brazil B-2220		
Telep	Telephone		551-430-6000		
Eme	Emergency telephone		215-631-6999		
E-mail address		:	EHSSTEWA	RD@organon.com	
Reco	ommended use of the	e chemi	ical and restri	ictions on use	
Recommended use			Pharmaceutio	cal	

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification in accordance with ABNT NBR 14725 Standard

Not a hazardous substance or mixture.

GHS label elements in accordance with ABNT NBR 14725 Standard

Not a hazardous substance or mixture.

Other hazards which do not result in classification None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Classification	Concentration (% w/w)
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	>= 0,1 -< 0,25



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			Short-term (acute) aquatic hazard, Category 3			
ECTION	4. FIRST AID MEASU	RES				
Gene	ral advice	advice imme	f accident or if you feel unwell, seek medical diately. oms persist or in all cases of doubt seek medical			
lf inha	aled		move to fresh air.			
In cas	se of skin contact	: In case of co of water. Remove con Get medical Wash clothir	 Get medical attention. In case of contact, immediately flush skin with soap and plenty of water. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse. 			
In cas	se of eye contact	: Flush eyes w	vith water as a precaution. attention if irritation develops and persists.			
lf swa	allowed	: If swallowed Get medical	 If swallowed, DO NOT induce vomiting. Get medical attention. Rinse mouth thoroughly with water. 			
	important symptoms ffects, both acute and ed		None known.			
	ction of first-aiders	and use the	 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). 			
Notoo	s to physician		omatically 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	:	Exposure to combustion products may be a hazard to health.
Hazardous combustion prod- ucts	:	Carbon oxides 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 fire-fighters	:	In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.

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SECTION	6. ACCIDENTAL RELE	AS	E MEASURES	
tive e	onal precautions, protec- quipment and emer- / procedures	:		tective equipment. ing advice (see section 7) and personal ient recommendations (see section 8).
Envir	onmental precautions	:	Prevent spreading oil barriers). Retain and dispos	akage or spillage if safe to do so. g over a wide area (e.g., by containment or se of contaminated wash water. should be advised if significant spillages
Methods and materials for containment and cleaning up		:	For large spills, pr containment to ke can be pumped, s container. Clean up remainin absorbent. Local or national r disposal of this ma employed in the c determine which r Sections 13 and 1	t absorbent material. rovide diking or other appropriate eep material from spreading. If diked material store recovered material in appropriate ng materials from spill with suitable regulations may apply to releases and aterial, as well as those materials and items cleanup of releases. You will need to regulations are applicable. 15 of this SDS provide information regarding attional requirements.

SECTION 7. HANDLING AND STORAGE

Technical measures	:	See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.
Local/Total ventilation	:	Use only with adequate ventilation.
Advice on safe handling		Avoid inhalation of vapor or mist.
		Do not swallow.
		Avoid contact with eyes.
		Avoid prolonged or repeated contact with skin.
		Handle in accordance with good industrial hygiene and safety
		practice, based on the results of the workplace exposure assessment
		Take care to prevent spills, waste and minimize release to the environment.
Hygiene measures	:	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
		use of administrative controls.
Conditions for safe storage	:	Keep in properly labeled containers.
	-	Store in accordance with the particular national regulations.



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Mater	rials to avoid	: Do not store w Strong oxidizin	ith the following product types: ng 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
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 containment devices). Minimize open handling.
Personal protective equipment	nt
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
Material	Chemical-resistant gloves
Remarks Eye 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.
Skin 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	:	liquid
Color	:	clear

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	Odor		:	No data available	
	Odor TI	nreshold	:	No data available	
	рН		:	6,4 - 7,2	
	Melting	point/freezing point	:	No data available	
	Initial be range	oiling point and boiling	:	100 °C	
	Flash p	oint	:	No data available	
	Evapora	ation rate	:	No data available	
	Flamma	ability (solid, gas)	:	Not applicable	
	Flamma	ability (liquids)	:	No data available	
		explosion limit / Upper bility limit	:	No data available	
		explosion limit / Lower bility limit	:	No data available	
	Vapor p	pressure	:	No data available	
	Relative	e vapor density	:	No data available	
	Relative	e density	:	No data available	
	Density		:	No data available	
	Solubili Wat	ty(ies) er solubility	:	soluble	
	Partition octanol	n coefficient: n-	:	Not applicable	
		ition temperature	:	No data available	
	Decom	position temperature	:	No data available	
	Viscosi Visc	ty osity, kinematic	:	No data available	
	Explosi	ve properties	:	Not explosive	
	Oxidizir	ng properties	:	The substance or	mixture is not classified as oxidizing.
	Particle	size	:	Not applicable	

SECTION 10. STABILITY AND REACTIVITY



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C P ti C Ir H	Possibil ons Condition ncomp	al stability ity of hazardous reac- ons to avoid atible materials ous decomposition	: :	Not classified as a reactivity hazard. Stable under normal conditions. Can react with strong oxidizing agents. None known. Oxidizing agents No hazardous decomposition products are known.					
SECT	SECTION 11. TOXICOLOGICAL INFORMATION								
	Information on likely routes of exposure		:	Inhalation Skin contact Ingestion Eye contact					
		oxicity							
		ssified based on availa nents:	bie	information.					
	lendro								
А	cute o	ral toxicity	:	: LD50 (Rat): 552 - 626 mg/kg					
			LD50 (Mouse): 966 - 1.280 mg/kg						
A	cute ir	halation toxicity	:	Remarks: No data	a available				
А	Acute d	ermal toxicity	:	Remarks: No data	a available				
_	Skin corrosion/irritation Not classified based on availal			information.					
<u>C</u>	Compo	nents:							
S	Alendronate: Species Remarks			Rabbit Severe skin irritati	on				
		s eye damage/eye irri ssified based on availa							
<u>C</u>	Compo	nents:							
S	Alendronate: Species Result			Rabbit Severe irritation					
R	Respira	atory or skin sensitiza	atio	n					
s	Skin se	ensitization							

Not classified based on available information.

Respiratory sensitization

Not classified based on available information.



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<u>Com</u>	oonents:					
Alend	dronate:					
Rema	arks	: No data availa	able			
	cell mutagenicity assified based on av	ailable information.				
Com	oonents:					
Alend	dronate:					
Geno	toxicity in vitro		kaline elution assay rat hepatocytes ve			
			cterial reverse mutation assay (AMES) vation: with and without metabolic activation ve			
		Test Type: In Result: negati	vitro mammalian cell gene mutation test ve			
			nromosomal aberration Chinese hamster ovary cells ocal			
Geno	toxicity in vivo	: Test Type: Ch Species: Mou Result: negati				
Carci	nogenicity					
Not cl	assified based on av	ailable information.				
<u>Com</u>	oonents:					
Alend	dronate:					
	es cation Route sure time	: Rat, male : Oral : 2 Years : 1 mg/kg body : 3,75 mg/kg body				
Target Organs : Remarks :		: Thyroid	ThyroidThe mechanism or mode of action may not be relevant in h			
-	oductive toxicity assified based on av	ailable information.				
Com	oonents:					
Alenc	dronate:					

Effects on fertility

Test Type: Fertility Species: Rat, male and female Application Route: Oral

:



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				: 5 mg/kg body weight esting did not show any effects on fertility.
Effects on fetal development		Symptoms: Rec body weight, Sk		male te: Oral Toxicity: LOAEL: 1 - 15 mg/kg body weight uced number of viable fetuses., Reduced eletal malformations. oxic effects and adverse effects on the
			Test Type: Deve Species: Rabbit Application Rout Developmental Result: No adve	, female te: Oral Toxicity: NOAEL: 40 mg/kg body weight
Repro sessm	oductive toxicity - As- nent	:	Some evidence animal experime	of adverse effects on development, based or ents.
	-single exposure assified based on availa	able	information.	
~	ananta.			
<u>Comp</u>	bonents:			
-	Ironate:			
Alend		:	May cause resp	iratory irritation.
Alend Asses STOT Not cla	Ironate: ssment -repeated exposure assified based on availa	: able		iratory irritation.
Alend Asses STOT Not cla <u>Comp</u>	Ironate: ssment -repeated exposure assified based on availa ponents:	: able		iratory irritation.
Alend Asses STOT Not cla Comp Alend Targe	Ironate: ssment -repeated exposure assified based on availa	: able : :	information. Bone, Stomach,	Kidney
Alend Asses STOT Not cla Comp Alend Targe Asses	Ironate: ssment -repeated exposure assified based on availa <u>conents:</u> Ironate: t Organs	: able :	information. Bone, Stomach, May cause dam	
Alend Asses STOT Not cla Comp Alend Targe Asses Repea	Ironate: ssment -repeated exposure assified based on availa <u>conents:</u> Ironate: t Organs ssment	: able : :	information. Bone, Stomach, May cause dam	Kidney
Alend Asses STOT Not cla Comp Alend Asses Repea Comp Alend	Ironate: ssment F-repeated exposure assified based on availa conents: Ironate: t Organs ssment ated dose toxicity <u>conents:</u> Ironate:	: able :	information. Bone, Stomach, May cause dam exposure.	Kidney
Alend Asses STOT Not cla Comp Alend Targe Asses Repea Comp Alend Specie	Ironate: ssment -repeated exposure assified based on availa <u>conents:</u> Ironate: t Organs ssment ated dose toxicity <u>conents:</u> Ironate: es	: able :	information. Bone, Stomach, May cause dam exposure.	Kidney
Alend Asses STOT Not cla Comp Alend Targe Asses Repea Comp Alend Specie NOAE LOAE	Ironate: ssment -repeated exposure assified based on availa <u>conents:</u> Ironate: t Organs ssment ated dose toxicity <u>conents:</u> Ironate: es EL L	: able : : :	information. Bone, Stomach, May cause dam exposure. Rat 2,5 mg/kg > 2,5 mg/kg	Kidney
Alend Asses STOT Not cla Comp Alend Targe Asses Repea Comp Alend Specie NOAE LOAE Applic	Ironate: ssment -repeated exposure assified based on availa <u>conents:</u> Ironate: t Organs ssment ated dose toxicity <u>conents:</u> Ironate: es EL L cation Route	: able : : :	information. Bone, Stomach, May cause dam exposure. Rat 2,5 mg/kg > 2,5 mg/kg Intravenous	Kidney
Alend Asses STOT Not cla Comp Alend Targe Asses Repea Comp Alend Specie NOAE LOAE Applic Expos	Ironate: ssment -repeated exposure assified based on availa <u>conents:</u> Ironate: t Organs ssment ated dose toxicity <u>conents:</u> Ironate: es EL L	: able : : : :	information. Bone, Stomach, May cause dam exposure. Rat 2,5 mg/kg > 2,5 mg/kg	Kidney
Alend Asses STOT Not cla Comp Alend Targe Asses Repea Comp Alend Specie NOAE LOAE Applic Expos Targe	Ironate: ssment -repeated exposure assified based on availa conents: Ironate: t Organs ssment ated dose toxicity conents: Ironate: es EL L cation Route sure time t Organs	: able : : : : :	information. Bone, Stomach, May cause dam exposure. Rat 2,5 mg/kg > 2,5 mg/kg Intravenous 53 Weeks Stomach	Kidney
Alend Asses STOT Not cla Comp Alend Targe Asses Repea Comp Alend Specie NOAE LOAE Applic Expos	Ironate: ssment -repeated exposure assified based on availa <u>conents:</u> Ironate: t Organs ssment ated dose toxicity <u>conents:</u> Ironate: es EL L cation Route sure time t Organs es	: able : : : : :	information. Bone, Stomach, May cause dam exposure. Rat 2,5 mg/kg > 2,5 mg/kg Intravenous 53 Weeks	Kidney



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	sure time et Organs	:	3 y Stomach, Bone,	Kidney
Expo	EL	:	Dog 2 mg/kg 4 mg/kg Oral 53 Weeks Kidney	
-	r <mark>ation toxicity</mark> lassified based on availa	ble	information.	
Com	ponents:			
	dronate: pplicable			
Expe	rience with human exp	osı	re	
-	ation contact contact	:	Symptoms: May Symptoms: May	ratory tract irritation cause, Skin irritation cause, Eye irritation rointestinal disturbance, musculoskeletal pain
<u>Com</u>	ponents:			
Inhala Skin o	contact contact	:	Symptoms: Seve Symptoms: Seve	ratory tract irritation ere irritation, skin blistering ere irritation rointestinal disturbance, musculoskeletal pain
ECTION	12. ECOLOGICAL INFO	ORN	IATION	
Ecoto	oxicity			
<u>Com</u>	ponents:			
Alend	dronate:			
Toxic	ity to fish	:	Exposure time: 9	es promelas (fathead minnow)): 27 mg/l 6 h Test Guideline 203
			LC50 (Oncorhyn Exposure time: 9 Method: FDA 4.1	
	ity to daphnia and other tic invertebrates	:	EC50 (Daphnia r Exposure time: 4	nagna (Water flea)): 170 mg/l



rsion	Revision Date: 16.10.2020	-	S Number: 191-00017	Date of last issue: 23.03.2020 Date of first issue: 05.11.2014
plants			mg/l Exposure time: 7 Method: OECD 1	2 h Test Guideline 201
			Exposure time: 7	irchneriella subcapitata (green algae)): 4 m 2 h Fest Guideline 201
Toxicity to fish (Chronic tox- icity)		:	Exposure time: 3	(Pimephales promelas (fathead minnow)): 1,1 mg/l ure time: 32 d d: OECD Test Guideline 210
			Exposure time: 3	les promelas (fathead minnow)): 1,9 mg/l 2 d Fest Guideline 210
	ty to daphnia and other ic invertebrates (Chron- city)	:	Exposure time: 2	magna (Water flea)): 4,7 mg/l 1 d Fest Guideline 211
Persi	stence and degradabili	ty		
<u>Comp</u>	oonents:			
	Ironate: gradability	:	Result: Readily b Biodegradation: Exposure time: 7	70,3 %
Stabil	ity in water	:		life (DT50): 375 d Fest Guideline 111
Bioac	cumulative potential			
<u>Comp</u>	oonents:			
Partiti	Ironate: on coefficient: n- ol/water	:	log Pow: -1,73	
	ity in soil ta available			
••	adverse effects ta available			

Disposal methods

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





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SECTION	14. TRANSPORT IN	FORMATION	
Inter	national Regulation	S	
UNR [®] Not re	TDG egulated as a danger	ous good	
	-DGR egulated as a danger	ous good	
-	-Code egulated as a danger	ous good	
	sport in bulk accord	-	RPOL 73/78 and the IBC Code
Dom	estic regulation		
ANT Not re	Г egulated as a danger	ous good	
Not re			
Not re	egulated as a danger 15. REGULATORY ay, health and enviro	INFORMATION	legislation specific for the substance or
Not re SECTION Safet mixtu	egulated as a danger 15. REGULATORY ty, health and enviro tre nal List of Carcinoge	INFORMATION	
Not ro SECTION Safet mixtu Natio (LINA	egulated as a danger 15. REGULATORY 15. REGULATORY 16. Constant of Carcinoge 16. List of chemicals constant of Carcinoge 17. List of chemicals constant of Carcinoge 17. List of chemical constant of Carcinoge 17. List of chemical constant of Carcinoge 17. List of chemical constant of Carcinoge 17. List of che	INFORMATION	- : Not applicable
Not ro SECTION Safet mixtu Natio (LINA Brazi Police	egulated as a danger 15. REGULATORY 15. REGULATORY 16. Constant of Carcinoge 16. List of chemicals constant of Carcinoge 17. List of chemicals constant of Carcinoge 17. List of chemical constant of Carcinoge 17. List of chemical constant of Carcinoge 17. List of chemical constant of Carcinoge 17. List of che	INFORMATION onmental regulations/ nic Agents for Humans ontrolled by the Federa	- : Not applicable
Not ra SECTION Safet mixtu Natio (LINA Brazi Polica	egulated as a danger 15. REGULATORY ty, health and enviro tre nal List of Carcinoge (CH) I. List of chemicals co e national Regulation ngredients of this p	INFORMATION onmental regulations/ nic Agents for Humans ontrolled by the Federa	
Not re SECTION Safet mixtu Natio (LINA Brazi Police Intern The i	egulated as a danger 15. REGULATORY ty, health and enviro tre nal List of Carcinoge (CH) I. List of chemicals co e national Regulation ngredients of this p	INFORMATION onmental regulations/ nic Agents for Humans ontrolled by the Federa s	

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

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 -



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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 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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