

Losartan Formulation

Version 5.3	Revision Date: 23.03.2020	SDS Number: 19338-00016	Date of last issue: 13.09.2019 Date of first issue: 07.10.2014					
SECTION	SECTION 1. PRODUCT AND COMPANY IDENTIFICATION							
Prod	uct name	: Losartan Fo	ormulation					
Man	ufacturer or supplier'	s details						
Com	pany	: Organon &	Co.					
Addr	Address		Rua Treze de Maio, 1161 Campinas, São Paulo, Brazil B-2220					
Telep	Telephone		000					
Eme	Emergency telephone		99					
E-ma	ail address	: EHSSTEW	ARD@organon.com					
Reco	ommended use of the	chemical and res	trictions on use					
Reco	ommended use	: Pharmaceu	itical					

SECTION 2. HAZARDS IDENTIFICATION

Hazard pictograms

GHS Classification in accordance with ABNT NBR 14725 Standard

Acute toxicity (Oral)	:	Category 4
Serious eye damage	:	Category 1
Skin sensitization	:	Category 1
Reproductive toxicity	:	Category 1B
Effects on or via lactation		
Specific target organ toxicity - repeated exposure (Oral)	:	Category 2 (Blood, Cardio-vascular system, Stomach, Kidney)

GHS label elements in accordance with ABNT NBR 14725 Standard

:

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Signal Word	:	Danger
Hazard Statements	:	 H302 Harmful if swallowed. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H360D May damage the unborn child. H362 May cause harm to breast-fed children. H373 May cause damage to organs (Blood, Cardio-vascular system, Stomach, Kidney) through prolonged or repeated

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		exposure if swa	llowed.
Preca	utionary Statements	P260 Do not bre P263 Avoid con	tact during pregnancy/ while nursing. tective gloves/ protective clothing/ eye protec-
		water for severa and easy to do. CENTER/ docto	P338 + P310 IF IN EYES: Rinse cautiously with al minutes. Remove contact lenses, if present Continue rinsing. Immediately call a POISON or. exposed or concerned: Get medical advice/

Other hazards which do not result in classification

Contact with dust can cause mechanical irritation or drying of the skin. 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
Losartan	124750-99-8	Acute toxicity (Oral), Category 4 Serious eye damage, Category 1 Skin sensitization, Category 1 Reproductive toxicity, Category 1B Effects on or via lacta- tion, Specific target organ toxicity - repeated exposure (Oral) (Blood, Cardio- vascular system, Stomach, Kidney), Category 2	>= 30 -< 50
Starch	9005-25-8		>= 10 -< 20

SECTION 4. FIRST AID MEASURES

General advice

In the case of accident or if you feel unwell, seek medical advice immediately.

When symptoms persist or in all cases of doubt seek medical



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		advice.				
lf inh	aled	: If inhaled, re Get medica	emove to fresh air. I attention.			
In ca	se of skin contact	: In case of c of water. Remove co Get medica Wash clothi	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.			
In ca	se of eye contact	: In case of c for at least If easy to do	Thoroughly clean shoes before reuse. In case of contact, immediately flush eyes with plenty of wate for at least 15 minutes. If easy to do, remove contact lens, if worn. Get medical attention immediately.			
lf swa	allowed	: If swallowed Get medica Rinse mout	d, DO NOT induce vomiting.			
	important symptoms effects, both acute and /ed	: Harmful if s May cause Causes seri May damag May cause May cause exposure if	wallowed. an allergic skin reaction. ous eye damage. e the unborn child. harm to breast-fed children. damage to organs through prolonged or repeated			
Prote	ection of first-aiders	and use the	ponders should pay attention to self-protection, recommended personal protective equipment otential for exposure exists (see section 8).			
Note	s to physician	: Treat symptomatically and supportively.				

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media		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 Chlorine compounds Nitrogen oxides (NOx)
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.



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Special protective equipment for fire-fighters		:		f fire, wear self-contained breathing apparatus. protective equipment.
SECTION	6. ACCIDENTAL RELE	AS	E MEASURES	
tive e	onal precautions, protec- equipment and emer- y procedures	:	Follow safe ha	protective equipment. andling advice and personal protective commendations.
Envir	onmental precautions	:	Prevent furthe Retain and dis	o the environment must be avoided. er leakage or spillage if safe to do so. spose of contaminated wash water. les should be advised if significant spillages atained.
	ods and materials for ainment and cleaning up	:	container for of Avoid dispers with compress Dust deposits surfaces, as the released into Local or natio disposal of the employed in the determine whe Sections 13 a	al of dust in the air (i.e., clearing dust surfaces

SECTION 7. HANDLING AND STORAGE

Technical measures :	Static electricity may accumulate and ignite suspended dust causing an explosion.
	Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres.
Local/Total ventilation :	If sufficient ventilation is unavailable, use with local exhaust ventilation.
Advice on safe handling :	Do not get on skin or clothing.
	Do not breathe dust.
	Do not swallow.
	Do not get in eyes.
	Handle in accordance with good industrial hygiene and safety
	practice, based on the results of the workplace exposure
	assessment
	Keep container tightly closed.
	Minimize dust generation and accumulation.
	Keep container closed when not in use.
	Keep away from heat and sources of ignition.
	Take precautionary measures against static discharges.
	Take care to prevent spills, waste and minimize release to the environment.
Hygiene measures :	If exposure to chemical is likely during typical use, provide eye
	flushing systems and safety showers close to the working place.



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Conditions for safe storage		 When using do not eat, drink or smoke. Wash contaminated clothing before re-use. Keep in properly labeled containers. Store locked up. Keep tightly closed. Store in accordance with the particular national regulations 	
Materials to avoid		: Do not store with the following product types: Strong oxidizing agents Organic peroxides Explosives Gases	

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	TŴA	10 mg/m ³	ACGIH
Losartan	124750-99-8	TWA	100 µg/m3 (OEB 2)	Internal
Starch	9005-25-8	TWA	10 mg/m ³	ACGIH

Engineering measures :	Minimize workplace exposure concentrations. Apply measures to prevent dust explosions. Ensure that dust-handling systems (such as exhaust ducts, dust collectors, vessels, and processing equipment) are designed in a manner to prevent the escape of dust into the work area (i.e., there is no leakage from the equipment). If sufficient ventilation is unavailable, use with local exhaust ventilation.
Personal protective equipment	
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 :	Choose gloves to protect hands against chemicals depending on the concentration specific to place of work. Breakthrough time is not determined for the product. Change gloves often! For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer. Wash hands before
Eye protection :	breaks and at the end of workday. Wear the following personal protective equipment: Chemical resistant goggles must be worn. If splashes are likely to occur, wear: Face-shield
Skin and body protection :	Select appropriate protective clothing based on chemical



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			potential. Skin contact must	nd an assessment of the local exposure be avoided by using impervious protective prons, boots, etc).
ECTION	9. PHYSICAL AND CHE	EMIC		3
Appe	arance	:	powder	
Color		:	White to light yell	ow
Odor		:	No data available	•
Odor	Threshold	:	No data available)
pН		:	No data available)
Meltir	ng point/freezing point	:	No data available	9
Initial range	boiling point and boiling	:	No data available	
Flash	point	:	No data available)
Evapo	oration rate	:	No data available)
Flamr	nability (solid, gas)	:	May form explosi handling or other	ve dust-air mixture during processing, means.
Flamr	mability (liquids)	:	No data available)
	r explosion limit / Upper nability limit	:	No data available	
	r explosion limit / Lower nability limit	:	No data available	
Vapo	r pressure	:	No data available)
Relati	ve vapor density	:	No data available)
Relati	ve density	:	No data available	•
Densi	ity	:	1 g/cm ³	
	ility(ies) ater solubility	:	No data available	
octan	ion coefficient: n- ol/water	:	No data available	
	gnition temperature	:	No data available	
Deco	mposition temperature	:	No data available)



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V	iscosity, kinematic	: No data ava	ilable
Explosive properties		: Not explosiv	/e
Oxic	lizing properties	: The substar	nce or mixture is not classified as oxidizing.
Mole	ecular weight	: No data ava	ilable
Mini	mum ignition energy	: > 300 mJ	
Part	icle size	: No data ava	ilable

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	: Oxidizing agents
Hazardous decomposition products	: No hazardous decomposition products are known.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure	:	Inhalation Skin contact Ingestion Eye contact
Acute toxicity		
Harmful if swallowed.		
Product:		
Acute oral toxicity	:	Acute toxicity estimate: 1.502 mg/kg Method: Calculation method
Components:		
Cellulose:		
Acute oral toxicity	:	LD50 (Rat): > 5.000 mg/kg
Acute inhalation toxicity	:	LC50 (Rat): > 5,8 mg/l Exposure time: 4 h Test atmosphere: dust/mist
Acute dermal toxicity	:	LD50 (Rabbit): > 2.000 mg/kg
Losartan:		
Acute oral toxicity	:	LD50 (Mouse): 1.257 - 1.590 mg/kg
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		LDLo (Rat):	200 mg/kg
		LDLo (Mous	e): 400 mg/kg
		,	, , , , , , , , , , , , , , , , , , , ,
Starch			5 000
Acute	oral toxicity	: LD50 (Rat):	> 5.000 mg/kg
Acute	dermal toxicity	: LD50 (Rabb	it): > 2.000 mg/kg
Skin c	orrosion/irritation		
Not cla	assified based on ava	ailable information.	
<u>Comp</u>	onents:		
Losar			
Specie Result		: Rabbit : Mild skin irri	tation
	us eye damage/eye		
	s serious eye damaç onents:	je.	
-			
Losar Specie		: Rabbit	
Result		: Severe irrita	tion
Starch	1:		
Specie		: Rabbit	
Result		: No eye irrita	tion
Respi	ratory or skin sensi	itization	
Skin s	ensitization		
May ca	ause an allergic skin	reaction.	
-	ratory sensitization assified based on ava		
	onents:	allable information.	
Losar		: Maximizatio	- Tast
Test T Routes	ype s of exposure	: Skin contact	
Specie	es	: Guinea pig	
Asses: Result			r evidence of skin sensitization in humans
Result		: positive	
Starch	ו:		
	vpe	: Maximizatio	n Test
Test T	s of exposure	: Skin contact	



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Specie Result		:	Guinea pig negative	
	cell mutagenicity assified based on ava	ailable	information.	
<u>Comp</u>	onents:			
Cellul	ose:			
Genot	oxicity in vitro	:	Test Type: Bacte Result: negative	rial reverse mutation assay (AMES)
			Test Type: In vitr Result: negative	o mammalian cell gene mutation test
Genot	oxicity in vivo	:	cytogenetic assa Species: Mouse Application Route	
			Result: negative	
Losar	tan:			
Genot	oxicity in vitro	:	Test Type: in vitre Result: negative	o test
				o mammalian cell gene mutation test nese hamster ovary cells
			Test Type: Alkali Result: negative	ne elution assay
			Test Type: Chror Result: negative	nosomal aberration
Genot	oxicity in vivo	:	Test Type: Chror Result: negative	nosomal aberration
Starc	n:			
	oxicity in vitro	:	Test Type: Bacte Result: negative	rial reverse mutation assay (AMES)
	n ogenicity assified based on ava	ailable	information.	
	onents:			
Cellul				
Specie Applic	es ation Route sure time	:	Rat Ingestion 72 weeks negative	



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	Losarta			Mouse		
	Species Applica Exposu Dose Result	tion Route	:	Oral 92 weeks 200 mg/kg body v negative	veight	
	Species Applica Exposu Dose Result	tion Route	:	Rat Oral 105 weeks 270 mg/kg body v negative	veight	
	May da	luctive toxicity mage the unborn child use harm to breast-fec		ildren.		
	<u>Compo</u>	onents:				
	Cellulo	se:				
	Effects	on fertility	:	Test Type: One-g Species: Rat Application Route Result: negative	eneration reproduction toxicity study	
	Effects	on fetal development	:	Test Type: Fertilit Species: Rat Application Route Result: negative	y/early embryonic development : Ingestion	
	Losarta	an:				
	Effects	on fertility	:	Result: female rep	ale : Oral 200 mg/kg body weight	
	Effects	on fetal development	:	Developmental To Result: Embryoto offspring were de No teratogenic eff	: Oral Maternal: NOAEL: 10 mg/kg body weight oxicity: NOAEL F1: 20 mg/kg body weight xic effects and adverse effects on the tected only at high maternally toxic doses, fects.	
	Reprod	uctive toxicity - As-	:	Clear evidence of	adverse effects on development, based on	



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sessm	nent	animal experiments.
		Studies indicating a hazard to babies during the lactation period
	-single exposure	
Not cl	assified based on av	ailable information.
STOT	-repeated exposure	
	ause damage to orga d or repeated exposu	ans (Blood, Cardio-vascular system, Stomach, Kidney) through pro- re if swallowed.
<u>Comp</u>	oonents:	
Losar	tan:	
Targe	s of exposure t Organs sment	 Ingestion Blood, Cardio-vascular system, Stomach, Kidney May cause damage to organs through prolonged or repeated exposure.
Repea	ated dose toxicity	
<u>Comp</u>	onents:	
Cellul	ose:	
Specie	es	: Rat
NOAE		: >= 9.000 mg/kg
	ation Route	: Ingestion
Expos	sure time	: 90 Days
Losar	tan:	
Specie	es	: Rat
LÒAE	L	: 15 mg/kg
	ation Route	: Oral
	sure time	: 309 d
	er of exposures	: daily : Blood Kidney, Cardia yaccular system Stomach
rarye	t Organs	: Blood, Kidney, Cardio-vascular system, Stomach
Specie	es	: Dog
NOAE		: 5 mg/kg
	ation Route	: Oral
	sure time	: 1 Months
Symp	loms	: Salivation, Vomiting
Specie	es	: Dog
LÖAE		: 25 mg/kg
	ation Route	: Oral
	sure time	: 53 Weeks
Numb Symp	er of exposures toms	: daily : Salivation, Vomiting
Cymp		. Canvation, vornang
Starc	h:	
Specie	20	: Rat



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	cation Route sure time	:	>= 2.000 mg/kg Skin contact 28 Days OECD Test Guide	eline 410			
-	ration toxicity classified based on availa	ble	information.				
<u>Com</u>	Components:						
	r tan: spiration toxicity classifica	atio	n				
-	erience with human exp ponents:	osı	ire				
	irtan:						
Eye o Inges	contact stion	:	Symptoms: Eye ir Symptoms: hypot	ritation ension, tachycardia			
	oxicity ponents:						
Cellu	llose:						
Toxic	sity to fish	:	Exposure time: 48	ipes (Japanese medaka)): > 100 mg/l 3 h on data from similar materials			
Losa	irtan:						
Toxic	to fish	:	LC50 (Oncorhync Exposure time: 96 Method: FDA 4.17				
	tity to daphnia and other tic invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: OECD Te				
Toxic plant	city to algae/aquatic s	:	NOEC (Microcyst Exposure time: 10 Method: FDA 4.07				
			NOEC (Selenastr Exposure time: 10 Method: FDA 4.07				
Toxic icity)	to fish (Chronic tox-	:	NOEC (Pimephale Exposure time: 32 Method: OECD Te				



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		/ to daphnia and other invertebrates (Chron- ity)	:	NOEC (Daphnia r Exposure time: 2 ² Method: OECD Te	
	Persis	tence and degradabil	ity		
	Compo	onents:			
	Cellulo Biodeg	ose: radability	:	Result: Readily bi	odegradable.
	Losart Stabilit <u></u>	an: y in water	:	Hydrolysis: < 10 %	%(5 d)
	Bioaco	umulative potential			
	Compo	onents:			
	Losart Partitio octano	n coefficient: n-	:	log Pow: 1,2	
		t y in soil a available			
		adverse effects a available			
SEC	CTION 1	3. DISPOSAL CONSIL	DER	ATIONS	

Disposal methods	
Waste from residues Contaminated packaging	 Dispose of in accordance with local regulations. 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

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



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Not regulated as a dangerous good									
SECTION 15. REGULATORY INFORMATION									
Safety, health and environmental regulations/legislation specific for the substance or mixture									
	National List of Carcinogenic Agents for Humans - : Not applicable (LINACH)								
Brazil. List of chemicals controlled by the Federal : Not applicable Police									
Inter	International Regulations								
	The ingredients of this product are reported in the following inventories: AICS : not determined								
DSL		: not determined							
IECS	SC	: not determined							

SECTION 16. OTHER INFORMATION

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

Full text of other abbreviations

ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)
ACGIH / TWA	:	8-hour, time-weighted average

AICS - Australian Inventory of Chemical Substances; 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; 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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