according to GB/T 16483 and GB/T 17519



## Losartan / Amlodipine Besylate Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 2023/09/30
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#### **1. PRODUCT AND COMPANY IDENTIFICATION**

Product name	:	Losartan / Amlodipine Besylate Formulation		
Manufacturer or supplier's de	etai	ils		
Company	:	Organon & Co.		
Address	:	30 Hudson Street, 33nd floor Jersey City, New Jersey, U.S.A 07302		
Telephone	:	+1-551-430-6000		
Emergency telephone number	:	+1-215-631-6999		
E-mail address	:	EHSSTEWARD@organon.com		
Recommended use of the chemical and restrictions on use				
Recommended use Restrictions on use	:	Pharmaceutical Not applicable		

#### 2. HAZARDS IDENTIFICATION

#### **Emergency Overview**

Appearance Colour Odour	:	powder No data available No data available		
May cause an allergic skin reaction. Causes serious eye damage. May damage the unborn child. May cause harm to breast-fed children. May cause damage to organs through prolonged or re- peated exposure.				
GHS Classification				
Serious eye damage/eye irri- tation	:	Category 1		
Skin sensitisation	:	Category 1		
Reproductive toxicity	:	Category 1B		
Effects on or via lactation				
Specific target organ toxicity - repeated exposure	:	Category 2		
GHS label elements				

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Hazaı	rd pictograms		
Signa	l word	: Danger	<b>v v</b>
Hazaı	rd statements	H318 Causes H360D May d H362 May ca	use an allergic skin reaction. serious eye damage. lamage the unborn child. use harm to breast-fed children. use damage to organs through prolonged or re- ure.
Preca	utionary statements	P202 Do not I and understoo P260 Do not I P263 Avoid c P264 Wash s P270 Do not o P272 Contam the workplace	breathe dust. ontact during pregnancy/ while nursing. kin thoroughly after handling. eat, drink or smoke when using this product. inated work clothing should not be allowed out o a. rotective gloves/ protective clothing/ eye protec-
		P305 + P351 water for seve and easy to d CENTER/ doo P308 + P313 attention. P333 + P313 vice/ attentior	IF exposed or concerned: Get medical advice/ If skin irritation or rash occurs: Get medical ad-
		<b>Storage:</b> P405 Store lo	cked up.
		Disposal:	e of contents/ container to an approved waste

#### Physical and chemical hazards

Not classified based on available information.

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#### Health hazards

Causes serious eye damage. May cause an allergic skin reaction. May damage the unborn child. May cause harm to breast-fed children. May cause damage to organs through prolonged or repeated exposure.

#### **Environmental hazards**

Not classified based on available information.

#### 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.

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

#### Components

Chemical name	CAS-No.	Concentration (% w/w)
Cellulose	9004-34-6	>= 50 -< 70
Losartan	124750-99-8	>= 10 -< 20
Amlodipine Besylate	652969-01-2	>= 1 -< 2.5
Titanium dioxide	13463-67-7	>= 0.1 -< 1

#### 4. FIRST AID MEASURES

:	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, 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.
	Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.
:	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lens, if worn. Get medical attention immediately.
:	If swallowed, DO NOT induce vomiting. Get medical attention.
:	Rinse mouth thoroughly with water. May cause an allergic skin reaction. Causes serious eye damage. May damage the unborn child. May cause harm to breast-fed children. May cause damage to organs through prolonged or repeated exposure. Contact with dust can cause mechanical irritation or drying of
	:

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Protection of first-aiders		:	and use the reco	ers should pay attention to self-protection, mmended personal protective equipment al for exposure exists (see section 8).
No	es to physician	:		ically and supportively.
5. FIRE	FIGHTING MEASURES			
Sui	table extinguishing media	ng media : Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical		
Un: me	suitable extinguishing dia	:	None known.	
Spe	ecific hazards during fire- iting	:	<ul> <li>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.</li> <li>Exposure to combustion products may be a hazard to health</li> </ul>	
Ha: uct	zardous combustion prod- s	:	: Carbon oxides Chlorine compounds Nitrogen oxides (NOx) Metal oxides	
Spo ods	ecific extinguishing meth-	:	: 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 so.	
	ecial protective equipment firefighters	:	<ul> <li>Evacuate area.</li> <li>In the event of fire, wear self-contained breathing apparatus Use personal protective equipment.</li> </ul>	
6. ACCI	DENTAL RELEASE MEA	SUF	ES	
tive	rsonal precautions, protec- equipment and emer- ncy procedures	:	Follow safe hand	tective equipment. ling advice (see section 7) and personal pro- t recommendations (see section 8).
Env	vironmental precautions	:	: Avoid release to the environment. Prevent further leakage or spillage if safe to do so. 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		tainer for disposa Avoid dispersal of with compressed Dust deposits sho	f dust in the air (i.e., clearing dust surfaces
			4 / 20	

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		Local or r posal of t employed mine white Sections	to the atmosphere in sufficient concentration. 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. HAND	DLING AND STORAGE		
Hai	ndling		
Teo	hnical measures	causing a Provide a	ctricity may accumulate and ignite suspended dust n explosion. dequate precautions, such as electrical grounding ing, or inert atmospheres.
Loc	al/Total ventilation		nt ventilation is unavailable, use with local exhaust
	vice on safe handling	: Avoid cor Do not ge Do not br Do not sv Do not ge Wash ski Handle ir practice, sessmen Keep cor Minimize Keep cor Keep awa Take pre- Do not ea	Attact during pregnancy and while nursing. Attact during pregnancy and while nursing. Attact dust of skin or clothing. Particle attact and states attact attact attacts attact attacts attact attacts attacts attacts attact attacts attact
	<b>rage</b> nditions for safe storage	: Keep in properly labelled containers. Store locked up. Keep tightly closed. Store in accordance with the particular national regulations.	
Ma	terials to avoid	: Do not st	ore with the following product types: idizing agents
Pac	ckaging material	: Unsuitab	e material: None known.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters

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Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Cellulose	9004-34-6	PC-TWA	10 mg/m3	CN OEL
		TWA	10 mg/m3	ACGIH
Losartan	124750-99-8	TWA	100 µg/m3 (OEB 2)	Internal
Amlodipine Besylate	652969-01-2	TWA	20 µg/m3 (OEB 3)	Internal
		Wipe limit	100 µg/100 cm <sup>2</sup>	Internal
Titanium dioxide	13463-67-7	PC-TWA (Total dust)	8 mg/m3	CN OEL
	Further inform	Further information: G2B - Possibly carcinogenic to humans		humans

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 de- signed 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	t
Respiratory protection:Filter type:Eye/face protection:	sure assessment demonstrates exposures outside the rec- ommended guidelines, use respiratory protection. Particulates type 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 resistance data and an assessment of the local exposure potential. Skin contact must be avoided by using impervious protective clothing (gloves, aprons, boots, etc).
Hand protection	
Material :	Chemical-resistant gloves
Remarks :	Choose gloves to protect hands against chemicals depending on the concentration and quantity of the hazardous sub- stance and 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 breaks and at the end of workday.
Hygiene measures :	If exposure to chemical is likely during typical use, provide eye flushing systems and safety showers close to the work- ing place.

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			Contaminated wo workplace.	ot eat, drink or smoke. rk clothing should not be allowed out of the ed clothing before re-use.
9. PHYS	ICAL AND CHEMICAL PR	ROP	ERTIES	
Арр	earance	:	powder	
Cold	our	:	No data available	9
Odd	bur	:	No data available	9
Odo	our Threshold	:	No data available	9
pН		:	No data available	9
Mel	ting point/freezing point	:	No data available	9
Initia ranç	al boiling point and boiling ge	:	No data available	9
Flas	sh point	:	Not applicable	
Eva	poration rate	:	No data available	9
Flar	nmability (solid, gas)	:	May form explosiding or other me	ive dust-air mixture during processing, han- eans.
Flar	nmability (liquids)	:	No data available	9
	er explosion limit / Upper mability limit	:	No data available	9
	er explosion limit / Lower mability limit	:	No data available	9
Vap	our pressure	:	No data available	9
Rela	ative vapour density	:	No data available	9
Rela	ative density	:	No data available	9
Den	sity	:	No data available	9
	ıbility(ies) Vater solubility	:	No data available	9
	ition coefficient: n- nol/water	:	No data available	9
	p-ignition temperature	:	No data available	9

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Decom	position temperature	: No data availa	able
Viscosi	itv		
	cosity, kinematic	: No data availa	able
Explos	ive properties	: Not explosive	
Oxidizi	ng properties	: The substanc	e or mixture is not classified as oxidizing.
Molecu	ılar weight	: No data availa	able
Particle characteristics Particle size		: No data availa	able
. STABIL	ITY AND REACTIVIT	(	
	vity cal stability ility of hazardous reac-	<ul> <li>Stable under I</li> <li>May form exp dling or other</li> </ul>	as a reactivity hazard. normal conditions. losive dust-air mixture during processing, han means. n strong oxidizing agents.
Conditi	ions to avoid	: Heat, flames a	
	batible materials lous decomposition ts	Avoid dust for : Oxidizing age : No hazardous	
. TOXICO	DLOGICAL INFORMA	ΓΙΟΝ	
Exposi	ure routes	: Inhalation Skin contact Ingestion Eye contact	
Acute	toxicity	,	
Not cla	ssified based on availa	ble information.	
Produc Acute o	<u>ct:</u> oral toxicity	· Acute toxicity e	estimate: > 5,000 mg/kg
		Method: Exper	
Compo	onents:		
Cellulo	ose:		
Acute of	oral toxicity	: LD50 (Rat): > :	5,000 mg/kg
Acute i	nhalation toxicity	: LC50 (Rat): > Exposure time	

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rsion	Revision Date: 2024/04/06		DS Number: 933-00022	Date of last issue: 2023/09/30 Date of first issue: 2015/01/26
			Test atmosphe	ere: dust/mist
Acute	dermal toxicity	:	LD50 (Rabbit):	> 2,000 mg/kg
Losar	rtan:			
Acute	oral toxicity	:	LD50 (Mouse)	: 1,257 - 1,590 mg/kg
			LDLo (Rat): 20	00 mg/kg
			LDLo (Mouse)	: 400 mg/kg
Amlo	dipine Besylate:			
	oral toxicity	:	LD50 (Rat): 39	93 mg/kg
Titani	ium dioxide:			
	oral toxicity	:	LD50 (Rat): >	5,000 mg/kg
Acute	inhalation toxicity	:	LC50 (Rat): > (	6.82 mg/l
			Exposure time	: 4 h
			Test atmosphe Assessment: T tion toxicity	
Skin	corrosion/irritation		Assessment: T	ere: dust/mist The substance or mixture has no acute inhala-
-	<b>corrosion/irritation</b> assified based on ava	ailable	Assessment: T tion toxicity	
Not cl		ailable	Assessment: T tion toxicity	
Not cl	assified based on ava <u> conents:</u>	ailable	Assessment: T tion toxicity	
Not cl <u>Comp</u> Losar Speci	assified based on ava ponents: rtan: es	ailable :	Assessment: T tion toxicity information. Rabbit	he substance or mixture has no acute inhala-
Not cl <u>Comp</u> Losar	assified based on ava ponents: rtan: es	ailable :	Assessment: T tion toxicity information.	he substance or mixture has no acute inhala-
Not cl Comp Losar Speci Resul Titani	assified based on ava <u>conents:</u> rtan: es t ium dioxide:	:	Assessment: T tion toxicity information. Rabbit Mild skin irritat	he substance or mixture has no acute inhala-
Not cl <u>Comp</u> Losar Speci Resul	assified based on ava <u>conents:</u> rtan: es t ium dioxide: es	ailable : : :	Assessment: T tion toxicity information. Rabbit	The substance or mixture has no acute inhala-
Not cl Comp Losar Speci Resul Titani Speci Resul	assified based on ava <u>conents:</u> rtan: es t ium dioxide: es t		Assessment: T tion toxicity information. Rabbit Mild skin irritat Rabbit No skin irritatic	The substance or mixture has no acute inhala-
Not cl Comp Losar Specia Resul Titani Specia Resul	assified based on ava <u>conents:</u> rtan: es t ium dioxide: es	: : irritati	Assessment: T tion toxicity information. Rabbit Mild skin irritat Rabbit No skin irritatic	The substance or mixture has no acute inhala-
Not cl Comp Losar Speci Resul Titani Speci Resul Serio Cause	assified based on ava <u>ponents:</u> rtan: es t ium dioxide: es t us eye damage/eye	: : irritati	Assessment: T tion toxicity information. Rabbit Mild skin irritat Rabbit No skin irritatic	The substance or mixture has no acute inhala-
Not cl Comp Losar Speci Resul Titani Speci Resul Serio Cause	assified based on ava <u>conents:</u> rtan: es t ium dioxide: es t us eye damage/eye es serious eye damage <u>conents:</u>	: : irritati	Assessment: T tion toxicity information. Rabbit Mild skin irritat Rabbit No skin irritatic	The substance or mixture has no acute inhala-
Not cl Comp Losar Specia Resul Titani Specia Resul Serio Cause Comp	assified based on ava <u>conents:</u> rtan: es t ium dioxide: es t us eye damage/eye es serious eye damage <u>conents:</u> rtan: es	: : irritati	Assessment: T tion toxicity information. Rabbit Mild skin irritat Rabbit No skin irritatic	The substance or mixture has no acute inhala- ion
Not cl Comp Losar Specia Resul Specia Resul Serio Cause Comp Losar Specia Resul	assified based on ava <u>conents:</u> rtan: es t ium dioxide: es t us eye damage/eye es serious eye damage <u>conents:</u> rtan: es	: : irritati	Assessment: T tion toxicity information. Rabbit Mild skin irritat Rabbit No skin irritatio	The substance or mixture has no acute inhala- ion

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rsion	Revision Date: 2024/04/06	SDS Number: 49933-00022	Date of last issue: 2023/09/30 Date of first issue: 2015/01/26
Resul	t	: Severe irritation	on
Titani	ium dioxide:		
Speci Resul	es	: Rabbit : No eye irritatio	on
Resp	iratory or skin sens	itisation	
-	sensitisation ause an allergic skin	reaction.	
-	iratory sensitisatior assified based on av		
<u>Comp</u>	oonents:		
Losa	rtan:		
Speci	sure routes es ssment	<ul> <li>Maximisation</li> <li>Skin contact</li> <li>Guinea pig</li> <li>Probability or optimized</li> <li>positive</li> </ul>	Test evidence of skin sensitisation in humans
	ium dioxide:		
Test T Expos Speci Resul	sure routes es	: Local lymph n : Skin contact : Mouse : negative	ode assay (LLNA)
Germ	cell mutagenicity		
Not cl	assified based on av	ailable information.	
<u>Comp</u>	oonents:		
Cellu	lose:		
Geno	toxicity in vitro	: Test Type: Ba Result: negati	cterial reverse mutation assay (AMES) ve
		Test Type: In Result: negati	vitro mammalian cell gene mutation test ve
Geno	toxicity in vivo	: Test Type: Ma cytogenetic as Species: Mous Application Ro Result: negati	se Dute: Ingestion
Losa	rtan:		
Geno	toxicity in vitro	: Test Type: in v	vitro assay

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		Result: negat	tive
			vitro mammalian cell gene mutation test Chinese hamster ovary cells tive
		Test Type: A Result: nega	Ikaline elution assay tive
		Test Type: C Result: nega	hromosomal aberration tive
Geno	toxicity in vivo	: Test Type: C Result: negat	hromosomal aberration tive
Amlo	dipine Besylate:		
	toxicity in vitro	: Test Type: B Result: nega	acterial reverse mutation assay (AMES) tive
		Test Type: C Result: negat	hromosome aberration test in vitro tive
Titani	ium dioxide:		
Geno	toxicity in vitro	: Test Type: B Result: negat	acterial reverse mutation assay (AMES) tive
Geno	toxicity in vivo	: Test Type: In Species: Mou Result: negat	
Carci	nogenicity		
	assified based on av	ailable information.	
Comp	oonents:		
Cellu	lose:		
Speci		: Rat	
	ation Route	: Ingestion	
Expos Resul	sure time t	: 72 weeks : negative	
Losar	rtan:		
Speci	es	: Mouse	
Applic	ation Route	: Oral	
	sure time	: 92 weeks	
Dose Resul	t	: 200 mg/kg bo : negative	ody weight
Speci	es	: Rat	

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	lication Route	: Oral					
•	osure time	: 105 weeks	ak				
Dos Res		: 270 mg/kg boo : negative	ay weight				
IXES	un	. negative					
Aml	odipine Besylate:						
Spe		: Mouse					
	lication Route	: Oral					
	osure time	: 2 Years					
Res	ult	: negative					
Spe		: Rat					
	lication Route osure time	: Oral : 2 Years					
Res		: negative					
IXE3		. negative					
Tita	nium dioxide:						
Spe	cies	: Rat					
	lication Route		: inhalation (dust/mist/fume)				
	osure time	: 2 Years					
Meth		: OECD Test G	uideline 453				
Res		: positive					
Ren	narks	mans.	m or mode of action may not be relevant in hu-				
Caro men	cinogenicity - Assess- it	: Limited evider animals.	nce of carcinogenicity in inhalation studies with				
Pop	roductive toxicity						
-	damage the unborn chi	Ы					
	cause harm to breast-fe						
<u>Con</u>	nponents:						
Cell	ulose:						
Effe	cts on fertility		e-generation reproduction toxicity study				
		Species: Rat	· ·				
			oute: Ingestion				
		Result: negati	ve				
Effe	cts on foetal develop-		rtility/early embryonic development				
men	nt	Species: Rat					
			oute: Ingestion				
		Result: negati	ve				
Los	artan:						
Effe	cts on fertility	: Test Type: Fe	rtility				
-	,	Species: Rat,					
		Application Ro					

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				Result: female rep	200 mg/kg body weight productive effects al toxicity observed.
	Effects on foetal develop- ment		:	Developmental To Result: Embryoto	e: Oral Maternal: NOAEL: 10 mg/kg body weight oxicity: NOAEL F1: 20 mg/kg body weight xic effects and adverse effects on the off- cted only at high maternally toxic doses, No
	Reproductive toxicity - As- sessment		:	Clear evidence of animal experimen	adverse effects on development, based on tts.
				Studies indicating od	a hazard to babies during the lactation peri-
	<b>Amlodipine Besylate:</b> Effects on fertility		:	Species: Rat Application Route	10 mg/kg body weight
				Species: Rabbit Application Route	25 mg/kg body weight
	ffects nent	on foetal develop-	:	Species: Rat Application Route Developmental To	vo-foetal development :: Ingestion oxicity: LOAEL: 10 mg/kg body weight i foetal development
				Species: Rabbit Application Route Developmental To	vo-foetal development :: Ingestion oxicity: NOAEL: 10 mg/kg body weight s on foetal development
				Test Type: Embry	vo-foetal development

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Species: Mouse Application Route: Ingestion Developmental Toxicity: LOAEL: 1.6 mg/kg body weight Result: Effects on foetal development Remarks: Maternal toxicity observed.

#### STOT - single exposure

Not classified based on available information.

#### STOT - repeated exposure

May cause damage to organs through prolonged or repeated exposure.

#### **Components:**

#### Losartan:

Exposure routes	:	Ingestion
Target Organs	:	Blood, Cardio-vascular system, Stomach, Kidney
Assessment	:	May cause damage to organs through prolonged or repeated
		exposure.

#### Repeated dose toxicity

#### **Components:**

#### Cellulose:

Species	:	Rat
NOAEL	:	>= 9,000 mg/kg
Application Route	:	Ingestion
Exposure time	:	90 Days

#### Losartan:

Species LOAEL Application Route Exposure time Number of exposures Target Organs	:	Rat 15 mg/kg Oral 309 d daily Blood, Kidney, Cardio-vascular system, Stomach
Species NOAEL Application Route Exposure time Symptoms	:	Dog 5 mg/kg Oral 1 Months Salivation, Vomiting
Species LOAEL Application Route Exposure time Number of exposures Symptoms	:	Dog 25 mg/kg Oral 53 Weeks daily Salivation, Vomiting

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#### Amlodipine Besylate:

Species NOAEL Application Route Exposure time Remarks	 Rat 15 mg/kg Oral 90 d No significant adverse effects were reported
Titanium dioxide:	
Species NOAEL Application Route Exposure time	 Rat 24,000 mg/kg Ingestion 28 Days
Species NOAEL Application Route Exposure time	 Rat 10 mg/m3 inhalation (dust/mist/fume) 2 yr

#### Aspiration toxicity

Not classified based on available information.

#### **Components:**

#### Losartan:

No aspiration toxicity classification

#### Experience with human exposure

#### Components:

Losartan:		
Eye contact	:	Symptoms: Eye irritation
Ingestion	·	Symptoms: hypotension, tachycardia
Amlodipine Besylate:		
Eye contact	:	Symptoms: Severe irritation
Ingestion	:	Symptoms: Nausea, Abdominal pain, Fatigue, Headache, Oedema, Palpitation

#### **12. ECOLOGICAL INFORMATION**

#### Ecotoxicity

#### Components:

#### Cellulose:

Toxicity to fish

: LC50 (Oryzias latipes (Japanese medaka)): > 100 mg/l Exposure time: 48 h

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			Remarks: Based	on data from similar materials
Losar	tan:			
Toxici	ty to fish	:	LC50 (Oncorhync Exposure time: 96 Method: FDA 4.17	
	ty to daphnia and other c invertebrates	:	EC50 (Daphnia magna (Water flea)): 331 mg/l Exposure time: 48 h Method: OECD Test Guideline 202	
Toxicit plants	ty to algae/aquatic	:	NOEC (Microcystis aeruginosa (blue-green algae)): 949 mg Exposure time: 10 d Method: FDA 4.01	
			NOEC (Selenastr Exposure time: 10 Method: FDA 4.07	
Toxici icity)	ty to fish (Chronic tox-	:	NOEC (Pimephale Exposure time: 32 Method: OECD Te	
	ty to daphnia and other c invertebrates (Chron- city)	:	: NOEC (Daphnia magna (Water flea)): 100 mg/l Exposure time: 21 d Method: OECD Test Guideline 211	
Amlo	dipine Besylate:			
	ty to fish	:	LC50 (Pimephale Exposure time: 96	s promelas (fathead minnow)): 2.7 mg/l 5 h
	ty to daphnia and other c invertebrates	:	EC50 (Daphnia m Exposure time: 48	hagna (Water flea)): 3.2 mg/l 3 h
Toxicit plants	ty to algae/aquatic	:	<ul> <li>IC50 (Pseudokirchneriella subcapitata (green algae)): 5.6 i Exposure time: 72 h Method: OECD Test Guideline 201</li> </ul>	
Titani	um dioxide:			
	ty to fish	:	LC50 (Oncorhync Exposure time: 96 Method: OECD Te	
	ty to daphnia and other c invertebrates	:	: EC50 (Daphnia magna (Water flea)): > 100 mg/l Exposure time: 48 h	
Toxici plants	ty to algae/aquatic	:	: EC50 (Skeletonema costatum (marine diatom)): > 10,000 m Exposure time: 72 h	

according to GB/T 16483 and GB/T 17519



# Losartan / Amlodipine Besylate Formulation

Vers 5.2	sion	Revision Date: 2024/04/06		OS Number: 933-00022	Date of last issue: 2023/09/30 Date of first issue: 2015/01/26
	Toxicit	y to microorganisms	:	EC50: > 1,000 mg Exposure time: 3 Method: OECD T	ĥ
	Persis	tence and degradabil	ity		
	Comp	onents:			
	Cellulo	ose:			
	Biodeg	radability	:	Result: Readily bi	odegradable.
	Losart	an.			
		y in water	:	Hydrolysis: < 10 9	%(5 d)
	Bioaco	cumulative potential			
		onents:			
	Losart	an:			
		on coefficient: n-	:	log Pow: 1.2	
	Amlod	lipine Besylate:			
	Partitio octano	on coefficient: n- I/water	:	log Pow: 3	
		<b>ty in soil</b> a available			
		<b>adverse effects</b> a available			
13.	DISPOS	SAL CONSIDERATION	IS		
		I			
	-	sal methods from residues		Do not dispose of	waste into sewer.
	110316		·	Dispose of in acc	ordance with local regulations.
	Contar	ninated packaging	:	Empty containers dling site for recyc	should be taken to an approved waste han- cling or disposal.

#### 14. TRANSPORT INFORMATION

#### International Regulations

UNRTDG		
UN number	: Not applicabl	е
Proper shipping name	: Not applicabl	е
Class	: Not applicabl	е
Subsidiary risk	: Not applicabl	е

If not otherwise specified: Dispose of as unused product.

according to GB/T 16483 and GB/T 17519



## Losartan / Amlodipine Besylate Formulation

Version 5.2	Revision Date: 2024/04/06		DS Number: 9933-00022	Date of last issue: 2023/09/30 Date of first issue: 2015/01/26
Label	ng group s onmentally hazardous		Not applicable Not applicable no	
Class Subsi Packi Label Packi aircra Packi	) No. er shipping name diary risk ng group s ng instruction (cargo		Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable	
UN nu Prope Class Subsi Packi Labels EmS	diary risk ng group s		Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable no	
	sport in bulk according			OL 73/78 and the IBC Code
Natio	nal Regulations			
UN ni	944/12268 umber	:	Not applicable	

UN number	:	Not applicable
Proper shipping name	:	Not applicable
Class	:	Not applicable
Subsidiary risk	:	Not applicable
Packing group	:	Not applicable
Labels	:	Not applicable
Marine pollutant	:	no

Special precautions for user

Not applicable

#### 15. REGULATORY INFORMATION

National regulatory information Law on the Prevention and Control of Occupational Diseases Regulation on the Administration of Precursor Chemicals Catalogue and Classification of Precursor Chemicals : Not listed

#### Yangtze River Protection Law

according to GB/T 16483 and GB/T 17519



## Losartan / Amlodipine Besylate Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 2023/09/30
5.2	2024/04/06	49933-00022	Date of first issue: 2015/01/26

This product contains one or more prohibited dangerous chemicals for inland river transport, but none of the three GHS hazard categories is Category 1.

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

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

**16. OTHER INFORMATION** 

Revision Date	:	2024/04/06
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	:	yyyy/mm/dd
Full text of other abbreviation	ons	
ACGIH CN OEL	:	USA. ACGIH Threshold Limit Values (TLV) Occupational exposure limits for hazardous agents in the workplace - Chemical hazardous agents.
ACGIH / TWA CN OEL / PC-TWA	:	8-hour, time-weighted average Permissible concentration - time weighted average

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR -Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation: DSL - Domestic Substances List (Canada): ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect 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 Substanc-

according to GB/T 16483 and GB/T 17519



## Losartan / Amlodipine Besylate Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 2023/09/30
5.2	2024/04/06	49933-00022	Date of first issue: 2015/01/26

es; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

#### Disclaimer

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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