

Versio 3.11	on	Revision Date: 10.10.2020		S Number: 43-00015	Date of last issue: 13.09.2019 Date of first issue: 26.01.2015
Sectio	on 1: lo	dentification			
Ρ	roduct	name	:	Losartan / Amloo	dipine Besylate Formulation
N	lanufa	cturer or supplier's d	etai	ls	
С	Compar	у	:	Organon & Co.	
A	ddress	3	:	30 Hudson Stree Jersey City, New	et, 33nd floor v Jersey, U.S.A 07302
Т	elepho	one	:	551-430-6000	
E	Emerge	ncy telephone number	:	215-631-6999	
E	-mail a	address	:	EHSSTEWARD	@organon.com
		mended use of the ch nended use	nemi :	cal and restriction	ons on use
Sectio	on 2: H	lazard identification			
G	SHS CI	assification			
	Serious ation	eye damage/eye irri-	:	Category 1	
S	Skin sei	nsitisation	:	Category 1	
R	Reprod	uctive toxicity	:	Category 1B	
E	ffects	on or via lactation			
		target organ toxicity - d exposure (Oral)	:	Category 2 (Bloc	od, Cardio-vascular system, Stomach, Kidne
G	SHS la	bel elements			
Η	lazard	pictograms	:		
S	Signal v	vord	:	Danger	\mathbf{v}
н	lazard	statements	:	H318 Causes se H360D May dam H362 May cause H373 May cause	e an allergic skin reaction. erious eye damage. nage the unborn child. e harm to breast-fed children. e damage to organs (Blood, Cardio-vascular h, Kidney) through prolonged or repeated ex- ved.
Р	Precaut	ionary statements	:	Prevention:	



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		P202 Do not h and understoo P260 Do not h P263 Avoid co P264 Wash sl P270 Do not e P272 Contam the workplace P280 Wear pr	preathe 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 of
		P305 + P351 water for seve and easy to d CENTER or d P308 + P313 attention. P333 + P313 vice/ attention	IF ON SKIN: Wash with plenty of soap and water. + P338 + P310 IF IN EYES: Rinse cautiously with eral minutes. Remove contact lenses, if present o. Continue rinsing. Immediately call a POISON octor/ physician. IF exposed or concerned: Get medical advice/ If skin irritation or rash occurs: Get medical ad-
		Storage: P405 Store lo	cked up.
		Disposal:	
		P501 Dispose disposal plant	of contents/ container to an approved waste
Othe	r hazards which do r	not result in classific	ation
		e mechanical irritation r mixture during proce	or drying of the skin. ssing, handling or other means.
ection 3	: Composition/inforr	nation on ingredients	3
Subs	tance / Mixture	: Mixture	
-	ponents		

Chemical name	CAS-No.	Concentration (% w/w)
Cellulose	9004-34-6	>= 60 -<= 100
Losartan	124750-99-8	>= 10 -< 30
Amlodipine Besylate	652969-01-2	< 10
Titanium dioxide	13463-67-7	< 1

Section 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.

SAFETY DATA SHEET



Losartan / Amlodipine Besylate Formulation

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se of skin contact	Get medical attention. In case of contact, immediately flush skin with soap and plent of water. Remove contaminated clothing and shoes.				
se of eye contact	Wash clothin Thoroughly c In case of co for at least 19 If easy to do,	g before reuse. clean shoes before reuse. ntact, immediately flush eyes with plenty of water 5 minutes. remove contact lens, if worn.			
allowed	 Get medical attention immediately. If swallowed, DO NOT induce vomiting. Get medical attention. Rinse mouth thoroughly with water. 				
important symptoms iffects, both acute and ed	: May cause a Causes seric May damage May cause h May cause d exposure if s Contact with	n allergic skin reaction. bus eye damage. e the unborn child. arm to breast-fed children. amage to organs through prolonged or repeated			
ction of first-aiders	: First Aid resp and use the when the pot	ponders should pay attention to self-protection, recommended personal protective equipment sential for exposure exists (see section 8). pomatically and supportively.			
	10.10.2020 se of skin contact se of eye contact allowed important symptoms iffects, both acute and ed	10.10.202049943-00015se of skin contact:In case of co of water. Remove con Get medical Wash clothin Thoroughly co is a of eye contact:In case of co of water. Remove con Get medical Wash clothin Thoroughly co is a set of eye contactallowed:In case of co for at least 13 If easy to do, Get medical Rinse mouthallowed:If swallowed, Get medical Rinse mouthimportant symptoms ffects, both acute and ed:May cause a Causes seric May cause d exposure if s Contact with the skin.ction of first-aiders:First Aid resp and use the			

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	:	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) 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 firefighters	:	

Section 6: Accidental release measures



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Personal precautions, protec- tive equipment and emer- gency procedures		:	Use personal protective equipment. Follow safe handling advice (see section 7) and personal pro- tective equipment recommendations (see section 8).		
Environmental 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.		
		s and materials for nent and cleaning up	:	tainer for disposal. Avoid dispersal of with compressed a Dust deposits sho es, as these may f leased into the atm Local or national m posal of this mater employed in the cl mine which regula Sections 13 and 1	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	 Avoid contact during pregnancy and while nursing. Do not get on skin or clothing. Do not breathe dust. Do not swallow. Do not get in eyes. Wash skin thoroughly after handling. 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 away from heat and sources of ignition. Take precautionary measures against static discharges. Do not eat, drink or smoke when using this product. Take care to prevent spills, waste and minimize release to the 	
Hygiene measures	 environment. 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. Contaminated work clothing should not be allowed out of the 	



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Cond	ditions for safe storage	workplace. Wash contaminated clothing before re-use. Keep in properly labelled containers. Store locked up. Keep tightly closed.				
Mate	erials to avoid	Store in accordance with the particular national regulations.Do not store with the following product types: Strong oxidizing agents				

Section 8: Exposure controls/personal protection

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Cellulose	9004-34-6	WES-TWA	10 mg/m3	NZ 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 ²	Internal
Titanium dioxide	13463-67-7	WES-TWA	10 mg/m3	NZ OEL
		TWA	10 mg/m3 (Titanium dioxide)	ACGIH

Components with workplace control parameters

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 : Hand protection	If adequate local exhaust ventilation is not available or expo- sure assessment demonstrates exposures outside the rec- ommended guidelines, use respiratory protection.
Material :	Chemical-resistant gloves
Remarks : Eye protection :	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. Wear the following personal protective equipment: Chemical resistant goggles must be worn.



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Skin and body protection		:	 If splashes are likely to occur, wear: Face-shield Select appropriate protective clothing based on chemic resistance data and an assessment of the local exposi- potential. Skin contact must be avoided by using impervious pro clothing (gloves, aprons, boots, etc). 		
ection 9:	Physical and chemica	l pr	operties		
Appea	rance	:	powder		
Colour	r	:	No data availabl	e	
Odour		:	No data availabl	e	
Odour	Threshold	:	No data availabl	e	
pН		:	No data availabl	e	
Melting	g point/freezing point	:	No data availabl	e	
Initial t range	poiling point and boiling	:	No data availabl	e	
Flash	point	:	Not applicable		
Evapo	ration rate	:	No data availabl	e	
Flamm	nability (solid, gas)	:	May form explos dling or other me	ive dust-air mixture during processing, han eans.	
Flamm	nability (liquids)	:	No data availabl	e	
Upper flamma	explosion limit / Upper ability limit	:	No data availabl	e	
	explosion limit / Lower ability limit	:	No data availabl	e	
Vapou	r pressure	:	No data availabl	e	
Relativ	ve vapour density	:	No data availabl	e	
Relativ	ve density	:	No data availabl	e	
Densit	у	:	No data availabl	e	
	lity(ies) ter solubility	:	No data availabl	e	
octanc	on coefficient: n- ol/water	:	No data availabl		
Auto-ię	gnition temperature	:	No data availabl	e	



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Dec	omposition temperature	:	No data availabl	e
	cosity /iscosity, kinematic	:	No data availabl	9
Exp	losive properties	:	Not explosive	
Oxio	dizing properties	:	The substance of	r mixture is not classified as oxidizing.
Mol	ecular weight	:	No data available	9
Part	ticle size	:	No data available	9

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, han- dling or other means. Can react with strong oxidizing agents.
Conditions to avoid	:	Heat, flames and sparks. Avoid dust formation.
Incompatible materials Hazardous decomposition products	:	Oxidizing agents

Section 11: Toxicological information

Exposure routes	:	Inhalation Skin contact Ingestion Eye contact
Acute toxicity		
Not classified based on availa	ble	information.
Product:		
Acute oral toxicity	:	Acute toxicity estimate: > 5,000 mg/kg Method: Expert judgement
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:		



rsion 1	Revision Date: 10.10.2020		S Number: 943-00015	Date of last issue: 13.09.2019 Date of first issue: 26.01.2015
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	um dioxide:			
Acute	oral toxicity	:	LD50 (Rat): >	5,000 mg/kg
Acute	inhalation toxicity		LC50 (Rat): > Exposure time Test atmosphe Assessment: T tion toxicity	: 4 h
	corrosion/irritation assified based on ava	ilable i	nformation.	
Comp	oonents:			
Losar	tan:			
Specie Resul			Rabbit Mild skin irritat	ion
Titani	um dioxide:			
Specie	es	:	Rabbit	
Resul		:	No skin irritatio	on
Serio	us eye damage/eye i	rritatic	on	
Cause	es serious eye damage	е.		
<u>Comp</u>	oonents:			
Losar	tan:			
Specie Result			Rabbit Severe irritatio	
itesui	l de la construcción de la constru	•		MT
Amlo	dipine Besylate:			
Specie			Rabbit	
Resul	t	•	Severe irritatio	'n
Titani	um dioxide:			
Specie Resul			Rabbit No eye irritatic	



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Resp	iratory or skin sens	itisation	
Skin	sensitisation		
May c	ause an allergic skin	reaction.	
Resp	iratory sensitisatior	า	
Not cl	assified based on av	ailable information.	
<u>Comp</u>	oonents:		
Losa	rtan:		
Test		: Maximisation 1	- est
Expos Speci	sure routes	: Skin contact : Guinea pig	
•	ssment		evidence of skin sensitisation in humans
Resul	t	: positive	
Titan	ium dioxide:		
Test 7		: Local lymph no	ode assay (LLNA)
Expos	sure routes	: Skin contact	
Speci Resul		: Mouse	
Chroi Germ	nic toxicity cell mutagenicity lassified based on av	: negative	
Chron Germ Not cl	cell mutagenicity		
Chron Germ Not cl	a cell mutagenicity lassified based on av conents:		
Chron Germ Not cl <u>Comp</u> Cellu	a cell mutagenicity lassified based on av conents:	vailable information.	cterial reverse mutation assay (AMES) re
Chron Germ Not cl <u>Comp</u> Cellu	a cell mutagenicity lassified based on av <u>ponents:</u> lose:	vailable information. : Test Type: Bac Result: negativ	re ritro mammalian cell gene mutation test
Chron Germ Not cl <u>Comp</u> Cellu Geno	a cell mutagenicity lassified based on av <u>ponents:</u> lose:	ailable information. : Test Type: Bac Result: negativ Test Type: In v Result: negativ : Test Type: Ma cytogenetic as Species: Mous Application Ro	re ritro mammalian cell gene mutation test re mmalian erythrocyte micronucleus test (in viv say) re ute: Ingestion
Chron Germ Not cl <u>Comp</u> Cellu Geno	a cell mutagenicity lassified based on av <u>ponents:</u> lose: toxicity in vitro	railable information. : Test Type: Bac Result: negativ Test Type: In v Result: negativ : Test Type: Ma cytogenetic as Species: Mous	re ritro mammalian cell gene mutation test re mmalian erythrocyte micronucleus test (in viv say) re ute: Ingestion
Chron Germ Not cl <u>Comp</u> Cellu Geno	a cell mutagenicity lassified based on av <u>conents:</u> lose: toxicity in vitro	ailable information. : Test Type: Bac Result: negativ Test Type: In v Result: negativ : Test Type: Ma cytogenetic as Species: Mous Application Ro	re ritro mammalian cell gene mutation test re mmalian erythrocyte micronucleus test (in viv say) re ute: Ingestion
Chron Germ Not cl Comp Cellu Geno Geno	a cell mutagenicity lassified based on av <u>conents:</u> lose: toxicity in vitro	ailable information. : Test Type: Bac Result: negativ Test Type: In v Result: negativ : Test Type: Ma cytogenetic as Species: Mous Application Ro	vitro mammalian cell gene mutation test ve mmalian erythrocyte micronucleus test (in viv say) ve ute: Ingestion ve
Chron Germ Not cl Comp Cellu Geno Geno	cell mutagenicity lassified based on av <u>conents:</u> lose: toxicity in vitro toxicity in vivo	 Test Type: Bac Result: negativ Test Type: In v Result: negativ Test Type: In v Result: negativ Test Type: Ma cytogenetic as Species: Mous Application Ro Result: negativ Test Type: in v Result: negativ 	vitro mammalian cell gene mutation test ve mmalian erythrocyte micronucleus test (in viv say) se ute: Ingestion ve vitro assay ve vitro mammalian cell gene mutation test Chinese hamster ovary cells



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		Test Type: Ch Result: negati	romosomal aberration ve
Geno	otoxicity in vivo	: Test Type: Ch Result: negati	romosomal aberration ve
Amlo	odipine Besylate:		
	ptoxicity in vitro	: Test Type: Ba Result: negati	cterial reverse mutation assay (AMES) ve
		Test Type: Ch Result: negati	romosome aberration test in vitro ve
Titar	nium dioxide:		
Geno	ptoxicity in vitro	: Test Type: Ba Result: negati	cterial reverse mutation assay (AMES) ve
Geno	ptoxicity in vivo	: Test Type: In Species: Mous Result: negati	
Caro	inogenicity		
Jail			
	classified based on av	ailable information.	
Not c	•	ailable information.	
Not c <u>Com</u>	classified based on av	ailable information.	
Not c <u>Com</u> Cellu Spec	classified based on av ponents: Ilose: cies	: Rat	
Not c <u>Com</u> Cellu Spec Appli	classified based on av ponents: Ilose: cies cation Route	: Rat : Ingestion	
Not c <u>Com</u> Cellu Spec Appli	classified based on av ponents: ulose: cation Route sure time	: Rat	
Not c <u>Com</u> Spec Appli Expo Resu	classified based on av ponents: ulose: cation Route sure time	: Rat : Ingestion : 72 weeks	
Not c <u>Com</u> Spec Appli Expo Resu	classified based on av ponents: Ilose: cies cation Route sure time Ilt	: Rat : Ingestion : 72 weeks	
Not c Com Cellu Spec Appli Expo Resu Losa Spec Appli	classified based on av ponents: Ilose: cies cation Route sure time Ilt Irtan: cies cation Route	: Rat : Ingestion : 72 weeks : negative : Mouse : Oral	
Not c Com Spec Appli Expo Resu Losa Spec Appli Expo	classified based on av ponents: Ilose: cies cation Route sure time Ilt Irtan: cies cation Route sure time	: Rat : Ingestion : 72 weeks : negative : Mouse : Oral : 92 weeks	du unoight
Not c Com Cellu Spec Appli Expo Resu Losa Spec Appli	classified based on av ponents: ilose: cies cation Route sure time ilt irtan: cies cation Route sure time	: Rat : Ingestion : 72 weeks : negative : Mouse : Oral	dy weight
Not c Com Spec Appli Expo Resu Losa Spec Appli Expo Dose	classified based on av ponents: ulose: cies cation Route sure time ult irtan: cies cation Route sure time ult	 Rat Ingestion 72 weeks negative Mouse Oral 92 weeks 200 mg/kg box 	dy weight
Not of Cellu Spec Appli Expo Resu Losa Spec Appli Expo Dose Resu Spec Appli	classified based on av ponents: ulose: cies cation Route bure time ult irtan: cies cation Route bure time ult cies cation Route bure time cation Route	 Rat Ingestion 72 weeks negative Mouse Oral 92 weeks 200 mg/kg bod negative Rat Oral 	dy weight
Not of Com Spec Appli Expo Resu Losa Spec Appli Expo Dose Resu Spec Appli Expo	classified based on av ponents: ulose: cies cation Route sure time it intan: cies cation Route sure time it sure time sure time officies cation Route sure time	 Rat Ingestion 72 weeks negative Mouse Oral 92 weeks 200 mg/kg bod negative Rat Oral 105 weeks 	
Not of Cellu Spec Appli Expo Resu Losa Spec Appli Expo Dose Resu Spec Appli	classified based on av ponents: ilose: cation Route sure time ilt irtan: cation Route sure time ilt cation Route sure time e	 Rat Ingestion 72 weeks negative Mouse Oral 92 weeks 200 mg/kg bod negative Rat Oral 	
Not o Cellu Spec Appli Expo Resu Losa Spec Appli Expo Dose Resu Spec Appli Expo Dose Resu	classified based on av ponents: ilose: cation Route sure time ilt irtan: cation Route sure time ilt cation Route sure time e	 Rat Ingestion 72 weeks negative Mouse Oral 92 weeks 200 mg/kg bod negative Rat Oral 105 weeks 270 mg/kg bod 	
Not of Cellu Speci Appli Expo Resu Losa Speci Appli Expo Dose Resu Speci Appli Expo Dose Resu Speci Appli	classified based on av ponents: ulose: cies cation Route sure time ult fits cation Route sure time ult cies cation Route sure time ult cies cation Route sure time ult cies cation Route sure time cation Route sure time cation Route sure time cation Route sure time cation Route sure time	 Rat Ingestion 72 weeks negative Mouse Oral 92 weeks 200 mg/kg bod negative Rat Oral 105 weeks 270 mg/kg bod negative megative 	
Not of Cellu Speci Appli Expo Resu Losa Speci Appli Expo Dose Resu Speci Appli Expo Dose Resu Speci Appli	classified based on av ponents: ulose: cies cation Route sure time ult intan: cies cation Route sure time ult intens cation Route sure time aut biogram cation Route sure time cation Route sure time cation Route sure time cation Route sure time	 Rat Ingestion 72 weeks negative Mouse Oral 92 weeks 200 mg/kg bod negative Rat Oral 105 weeks 270 mg/kg bod negative Rat Oral 105 weeks 270 mg/kg bod negative Mouse Mouse Oral 	
Not of Cellu Spect Appli Expo Resu Losa Spect Appli Expo Dose Resu Spect Appli Expo Dose Resu Spect Appli Expo Dose Resu	classified based on av ponents: ulose: cies cation Route sure time ult frtan: cies cation Route sure time ult cies cation Route sure time ult cies cation Route sure time cation Route sure time cation Route sure time	 Rat Ingestion 72 weeks negative Mouse Oral 92 weeks 200 mg/kg bod negative Rat Oral 105 weeks 270 mg/kg bod negative End Mouse Oral 270 mg/kg bod negative 	
Not of Cellu Speci Appli Expo Resu Losa Speci Appli Expo Dose Resu Speci Appli Expo Dose Resu Speci Appli	classified based on av ponents: ulose: cation Route baure time ult frtan: cation Route baure time ult cation Route baure time ult cation Route baure time cation Route baure time cation Route baure time ult	 Rat Ingestion 72 weeks negative Mouse Oral 92 weeks 200 mg/kg bod negative Rat Oral 105 weeks 270 mg/kg bod negative Rat Oral 105 weeks 270 mg/kg bod negative Mouse Mouse Oral 	



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	cation Route sure time t	: Oral : 2 Years : negative	
Specie Applic	cation Route sure time od t	: Rat : inhalation (du : 2 Years : OECD Test G : positive : The mechanis mans.	<i>.</i>
Carcir ment	nogenicity - Assess-	: Limited evider animals.	nce of carcinogenicity in inhalation studies with
May d May c	oductive toxicity lamage the unborn ch ause harm to breast-f ponents:		
Cellul Effect	l ose: s on fertility	Species: Rat	ne-generation reproduction toxicity study oute: Ingestion ive
Effect ment	s on foetal develop-	Species: Rat	ertility/early embryonic development oute: Ingestion ive
Losar Effect	r tan: s on fertility	Result: female	female
Effect ment	s on foetal develop-	Developmenta Result: Embry	bit oute: Oral city Maternal: NOAEL: 10 mg/kg body weight al Toxicity: NOAEL F1: 20 mg/kg body weight votoxic effects and adverse effects on the off- etected only at high maternally toxic doses, No
		Test Type: De Species: Rat Application Re	



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		tal Toxicity: LOAEL: 10 mg/kg body weight toxicity, No teratogenic effects
oductive toxicity - As- nent	: Clear eviden animal expe	ce of adverse effects on development, based on riments.
	Studies indic od	ating a hazard to babies during the lactation peri-
odipine Besylate: ts on fertility	Species: Rat Application F Fertility: NO	ertility/early embryonic development t Route: Ingestion AEL: 10 mg/kg body weight ffects on fertility
	Species: Ral Application F Fertility: NO	ertility/early embryonic development bbit Route: Ingestion AEL: 25 mg/kg body weight ffects on fertility
ts on foetal develop-	Species: Rat Application F Developmen	mbryo-foetal development t Route: Ingestion tal Toxicity: LOAEL: 10 mg/kg body weight ts on foetal development
	Species: Ral Application F Developmen	mbryo-foetal development bbit Route: Ingestion tal Toxicity: NOAEL: 10 mg/kg body weight ffects on foetal development
	Species: Mo Application F Developmen Result: Effect	imbryo-foetal development use Route: Ingestion Ital Toxicity: LOAEL: 1.6 mg/kg body weight Its on foetal development aternal toxicity observed.
	10.10.2020 oductive toxicity - As- nent odipine Besylate: ts on fertility	10.10.202049943-00015Developmen Result: Fetooductive toxicity - As- nent: Clear eviden animal expension Studies indic ododipine Besylate: ts on fertility: Test Type: F Species: Rai Application F Fertility: NO/ Result: No ets on foetal develop- ts on foetal develop-: Test Type: E Species: Rai Application F Fertility: NO/ Result: No ets on foetal develop- ts on foetal develop-: Test Type: E Species: Rai Application F Fertility: NO/ Result: No ets on foetal develop- ts on foetal develop-: Test Type: E Species: Rai Application F Ertility: NO/ Result: No ets on foetal develop- ts on foetal develop-: Test Type: E Species: Rai Application F Developmen Result: No ets on foetal develop- ts on foetal develop-: Test Type: E Species: Rai Application F Developmen Result: Effectts on foetal develop- ts on foetal develop-: Test Type: E Species: Rai Application F Developmen Result: Effectts on foetal develop- ts on foetal develop-: Test Type: E Species: Rai Application F Developmen Result: No e

STOT - single exposure

Not classified based on available information.

STOT - repeated exposure

May cause damage to organs (Blood, Cardio-vascular system, Stomach, Kidney) through prolonged or repeated exposure if swallowed.

Components:

Losartan:

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



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		exposure.	
Repe	ated dose toxicity		
Com	oonents:		
Cellu	lose:		
Speci	es	: Rat	
NOAE		: >= 9,000 mg/	/kg
	cation Route sure time	: Ingestion : 90 Days	
Losa	rtan:		
Speci		: Rat	
LOAE		: 15 mg/kg	
	cation Route sure time	: Oral : 309 d	
	ber of exposures	: daily	
	t Organs	•	y, Cardio-vascular system, Stomach
Speci	es	: Dog	
NOAE		: 5 mg/kg	
	cation Route sure time	: Oral : 1 Months	
Symp		: Salivation, Vo	omiting
Speci		: Dog	
LOAE		: 25 mg/kg	
	cation Route sure time	: Oral : 53 Weeks	
	ber of exposures	: daily	
Symp		: Salivation, Vo	omiting
Amlo	dipine Besylate:		
Speci		: Rat	
NOAE		: 15 mg/kg	
	cation Route sure time	: Oral : 90 d	
Rema			t adverse effects were reported
Titan	ium dioxide:		
Speci		: Rat	
NOAE		: 24,000 mg/kg	3
	cation Route sure time	: Ingestion : 28 Days	
Speci	es	: Rat	
NOAE	EL	: 10 mg/m3	
	cation Route		ust/mist/fume)
Expos	sure time	: 2 yr	



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•	ration toxicity			
	lassified based on availa	able	information.	
Com	ponents:			
Losa No as	rtan: spiration toxicity classifica	atio	n	
Expe	rience with human exp	osi	ire	
<u>Com</u>	ponents:			
Losa	rtan:			
Eye c	contact	:	Symptoms: Eye	irritation
Inges	stion	:	Symptoms: hypo	tension, tachycardia
	odipine Besylate:			
Eye c Inges	contact stion	:	Symptoms: Seve Symptoms: Naus Oedema, Palpita	sea, Abdominal pain, Fatigue, Headache,
ection 1	2: Ecological informati	on		
		•		
Ecote	oxicity			
	ponents:			
Cellu	llose:			
Toxic	ity to fish	:	Exposure time: 4	tipes (Japanese medaka)): > 100 mg/l 8 h on data from similar materials
Losa	rtan:			
	ity to fish	:	LC50 (Oncorhyn Exposure time: 9 Method: FDA 4.1	
	ity to daphnia and other tic invertebrates	:	Exposure time: 4	nagna (Water flea)): 331 mg/l 8 h Fest Guideline 202
Toxic plants	ity to algae/aquatic s	:	NOEC (Microcys Exposure time: 1 Method: FDA 4.0	
			NOEC (Selenast Exposure time: 1 Method: FDA 4.0	
Toxic icity)	ity to fish (Chronic tox-	:	Exposure time: 3	les promelas (fathead minnow)): 10 mg/l 2 d Fest Guideline 210

Method: OECD Test Guideline 210



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aquat ic toxi	ic invertebrates (Chron- city)		Exposure time: Method: OECD	21 d Test Guideline 211	
Amlo	dipine Besylate:				
Toxici	ity to fish	:	LC50 (Pimepha Exposure time:	les promelas (fathead minnow)): 2.7 mg/l 96 h	
Toxicity to daphnia and other aquatic invertebrates					
Toxici plants	ity to algae/aquatic	:	Exposure time:	rchneriella subcapitata (green algae)): 5.6 mg 72 h Test Guideline 201	
Titani	ium dioxide:				
Toxici	ity to fish	:	Exposure time:	nchus mykiss (rainbow trout)): > 100 mg/l 96 h Test Guideline 203	
	ity to daphnia and other ic invertebrates	:	EC50 (Daphnia Exposure time:	magna (Water flea)): > 100 mg/l 48 h	
Toxici plants	ity to algae/aquatic	:	EC50 (Skeletonema costatum (marine diatom)): > 10,000 Exposure time: 72 h		
Toxici	Toxicity to microorganisms		EC50: > 1,000 mg/l Exposure time: 3 h Method: OECD Test Guideline 209		
Persi	stence and degradabil	ity			
<u>Comp</u>	oonents:				
Cellu	lose:				
Biode	gradability	:	Result: Readily	biodegradable.	
Losai	rtan:				
	rtan: ity in water	:	Hydrolysis: < 10) %(5 d)	
Stabil		:	Hydrolysis: < 10) %(5 d)	
Stabil Bioac	ity in water	:	Hydrolysis: < 10) %(5 d)	
Stabil Bioac	ity in water ccumulative potential	:	Hydrolysis: < 10) %(5 d)	
Stabil Bioac <u>Comp</u> Losar Partiti	ity in water ccumulative potential	:	Hydrolysis: < 10) %(5 d)	
Stabil Bioac <u>Comp</u> Losar Partiti octan	ity in water ccumulative potential ponents: rtan: ion coefficient: n- ol/water dipine Besylate:	:	log Pow: 1.2) %(5 d)	
Stabil Bioac Comp Losar Partiti octano Amlo Partiti	ity in water ccumulative potential <u>conents:</u> rtan: ion coefficient: n- ol/water	:) %(5 d)	



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No da	r adverse effects ata available							
Section 1	3: Disposal considera	itions						
Dispo	osal methods							
Waste from residues Contaminated packaging		 Dispose of in accordance with local regulations. Empty containers should be taken to an approved waste han- dling site for recycling or disposal. If not otherwise specified: Dispose of as unused product. 						
Section 1	4: Transport informat	ion						
Interr	national Regulations							
	UNRTDG Not regulated as a dangerous good							
IATA Not re	-DGR egulated as a dangerou	ıs 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.							
Natio	nal Regulations							
NZS : Not re	5433 egulated as a dangerou	is good						
Section 1	5: Regulatory informa	ition						
Safet ture	y, health and environ	mental regulations/	egislation specific for the substance or mix-					
	HSNO Approval Number HSR100425 Pharmaceutical Active Ingredients Group Standard 2017							
Certif Track Refer	HSW Controls Certified handler certificate not required. Tracking hazardous substance not required. Refer to the Health and Safety at Work (Hazardous Substances) Regulations 2017, for further in- formation.							
	The components of this product are reported in the following inventories: AICS : not determined							

DSL	:	not determined



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Section 16: Other information								
F	urther information							
C	Sources of key data used to compile the Safety Data Sheet		Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agen- cy, http://echa.europa.eu/					
Date format		:	dd.mm.yyyy					
Full text of other abbreviations								
	CGIH IZ OEL	:		eshold Limit Values (TLV) rkplace Exposure Standards for Atmospher-				
	.CGIH / TWA IZ OEL / WES-TWA	:	8-hour, time-weig Workplace Expos	nted average ure Standard - 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 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.



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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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