

Version 3.14	Revision Date: 2021/04/09		S Number: 936-00017	Date of last issue: 2020/10/10 Date of first issue: 2015/01/26
1. PRODU	CT AND COMPANY ID	ENT	IFICATION	
Produ	ict name	:	Losartan / An	nlodipine Besylate Formulation
Manu Comp	facturer or supplier's a	deta :	ils Organon & C	0.
Addre	SS	:	JL Raya Pano Pandaan, Jav	daan KM. 48 wa Timur - Indonesia
Telep	hone	:	551-430-6000	0
Emerç	gency telephone numbe	er :	215-631-6999	9
E-mai	laddress	:	EHSSTEWAR	RD@organon.com
	mmended use of the c mmended use	hem :		
2. HAZAR	DS IDENTIFICATION			
	Classification us eye damage/eye irri-	:	Category 1	
Skin s	sensitisation	:	Category 1	
Repro	oductive toxicity	:	Category 1B	
Effect	s on or via lactation			
	fic target organ toxicity · ted exposure (Oral)	- :	Category 2 (E	Blood, Cardio-vascular system, Stomach, Kidney
	label elements ⁻ d pictograms	:		
Signa	l word	:	Danger	$\mathbf{\vee}$
Hazar	rd statements	:	H318 Causes H360D May o H362 May ca H373 May ca	use an allergic skin reaction. s serious eye damage. damage the unborn child. use harm to breast-fed children. use damage to organs (Blood, Cardio-vascular nach, Kidney) through prolonged or repeated ex- llowed.
Preca	utionary statements	:	Prevention:	



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		P202 Do no and unders P260 Do no P263 Avoid P264 Wash P270 Do no P272 Conta the workpla	t breathe dust. contact during pregnancy/ while nursing. skin thoroughly after handling. of eat, drink or smoke when using this product. aminated work clothing should not be allowed out of ce. protective gloves/ protective clothing/ eye protec-
		P305 + P35 water for se and easy to CENTER/ d P308 + P31 attention. P333 + P31 vice/ attenti	 32 IF ON SKIN: Wash with plenty of water. 31 + P338 + P310 IF IN EYES: Rinse cautiously with everal minutes. Remove contact lenses, if present do. Continue rinsing. Immediately call a POISON loctor. 3 IF exposed or concerned: Get medical advice/ 3 If skin irritation or rash occurs: Get medical ad-
		Storage: P405 Store	locked up.
		Disposal:	se of contents/ container to an approved waste
Conta		e mechanical irritation	ication on or drying of the skin. cessing, handling or other means.
СОМРС	DSITION/INFORMATI	ON ON INGREDIEN	ITS
Subs	tance / Mixture	: Mixture	
Com	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	>= 0.25 -< 2.5
Titanium dioxide	13463-67-7	< 1

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 advice.

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lf inh: In cas	aled se of skin contact	:	 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 					
In case of eye contact		:	 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 wa for at least 15 minutes. If easy to do, remove contact lens, if worn. 					
lf swa	allowed	:	Get medical atten	NOT induce vomiting. tion.				
	important symptoms effects, both acute and red	:	 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 if swallowed. Contact with dust can cause mechanical irritation or drying of the skin. 					
	Protection of first-aiders		and use the recon when the potentia	ers should pay attention to self-protection, mmended personal protective equipment I for exposure exists (see section 8).				
	s to physician GHTING MEASURES	:	l reat symptomatic	cally and supportively.				
Suita	Suitable extinguishing media		Water spray Alcohol-resistant f Carbon dioxide (C Dry chemical					
Unsu media	Unsuitable extinguishing : None known.		•					
	ific hazards during fire-		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.					
Haza ucts	rdous combustion prod-		Carbon oxides Chlorine compour Nitrogen oxides (N Metal oxides					
Spec ods	ific extinguishing meth-		cumstances and t Use water spray to Remove undamag so.	measures that are appropriate to local cir- he surrounding environment. o cool unopened containers. ged containers from fire area if it is safe to do				
	ial protective equipment efighters	:		e, wear self-contained breathing apparatus. ective equipment.				



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6. ACCIDE	ENTAL RELEASE MEA	SUR	RES		
tive e	nal precautions, protec- quipment and emer- / procedures	:	Follow safe ha	protective equipment. Indling advice (see section 7) and personal pro- I recommendations (see section 8).	
Enviro	Environmental precautions		Prevent furthe Retain and dis	to the environment. r leakage or spillage if safe to do so. pose of contaminated wash water. es should be advised if significant spillages tained.	
	ods and materials for inment and cleaning up	:	tainer for dispo Avoid dispersa with compress Dust deposits es, as these m leased into the Local or nation posal of this m employed in th mine which reg Sections 13 an	al of dust in the air (i.e., clearing dust surfaces	
7. HANDL	ING AND STORAGE				
	nical measures	:	causing an exp Provide adequand bonding, or	ate precautions, such as electrical grounding or inert atmospheres.	
Local	/Total ventilation	:	If sufficient ver ventilation.	ntilation is unavailable, use with local exhaust	
Advic	e 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 container closed when not in use. 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 environment. 		
Condi	itions for safe storage	:		•	



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Mater	rials to avoid		dance with the particular national regulations. rith the following product types: ng agents

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type	Control parame-	Basis				
		(Form of	ters / Permissible					
		exposure)	concentration					
Cellulose	9004-34-6	NAB	10 mg/m3	ID OEL				
		TWA	10 mg/m3	ACGIH				
Losartan	124750-99-8	TWA	100 µg/m3 (OEB	Internal				
			2)					
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	NAB	10 mg/m3	ID OEL				
	Further informa	ation: Not classi	fied as carcinogenic to	o humans. Not				
	enough data to	enough data to classify these materials as carcinogenic to hu-						
	mans or anima	als	-					
		TWA	10 mg/m3	ACGIH				
			(Titanium dioxide)					

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	
Respiratory protection :	If adequate local exhaust ventilation is not available or expo- sure assessment demonstrates exposures outside the rec- ommended 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 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
Eye protection :	end of workday. Wear the following personal protective equipment: Chemical resistant goggles must be worn. If splashes are likely to occur, wear: Face-shield



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Skin and body protection		: Select appropriate protective clothing based on chemical resistance data and an assessment of the local exposure potential.					
Hygie	ene measures	clothing (glove : If exposure to eye flushing sy ing place. When using de Contaminated workplace.	nust be avoided by using impervious protective es, aprons, boots, etc). chemical is likely during typical use, provide ystems and safety showers close to the work- o not eat, drink or smoke. work clothing should not be allowed out of the nated clothing before re-use.				

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	powder	
Colour	:	No data available	
Odour	:	No data available	
Odour Threshold	:	No data available	
рН	:	No data available	
Melting point/freezing point	:	No data available	
Initial boiling point and boiling range	:	No data available	
Flash point	:	Not applicable	
Evaporation rate	:	No data available	
Flammability (solid, gas)	:	May form explosive dust-air mixture during processing, han- dling or other means.	
Flammability (liquids)	:	No data available	
Upper explosion limit / Upper flammability limit	:	No data available	
Lower explosion limit / Lower flammability limit	:	No data available	
Vapour pressure	:	No data available	
Relative vapour density	:	No data available	
Relative density	:	No data available	
Density	:	No data available	
Solubility(ies) Water solubility	:	No data available	

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-			N I I <i>C</i> 1111	
	tition coefficient: n- anol/water	•	No data available	9
Aut	o-ignition temperature	:	No data available	9
Dec	composition temperature	:	No data available	9
	cosity Viscosity, kinematic	:	No data available	9
Exp	plosive properties	:	Not explosive	
Oxi	dizing properties	:	The substance o	r mixture is not classified as oxidizing.
Мо	ecular weight	:	No data available	9
Par	ticle size	:	No data available	9
10. STA	BILITY AND REACTIVITY	,		
Che Pos	Reactivity Chemical stability Possibility of hazardous reac- tions		Stable under nor May form explos dling or other me	ive dust-air mixture during processing, han-
Cor	nditions to avoid	:	Heat, flames and	
Haz	Incompatible materials Hazardous decomposition products		Avoid dust forma Oxidizing agents No hazardous de	
11. TOX	ICOLOGICAL INFORMAT	101	I	
	Information on likely routes of exposure		Inhalation Skin contact Ingestion Eye contact	
Acı	ute toxicity			
	classified based on availa	ble	information.	
	Product: Acute oral toxicity		Acute toxicity estimate: > 5,000 mg/kg Method: Expert judgement	
<u>Co</u>	mponents:			
Cel	lulose:			
Acu	ite oral toxicity	:	LD50 (Rat): > 5,0	00 mg/kg
Αςι	ite inhalation toxicity	:	LC50 (Rat): > 5.8 Exposure time: 4	
			7 / 40	



		Test atmosphe	ere: dust/mist		
dermal toxicity	:	LD50 (Rabbit):	z > 2,000 mg/kg		
tan:					
oral toxicity	:	: LD50 (Mouse): 1,257 - 1,590 mg/kg			
		LDLo (Rat): 20	00 mg/kg		
		LDLo (Mouse)	: 400 mg/kg		
dipine Besylate:					
oral toxicity	:	LD50 (Rat): 39	13 mg/kg		
um dioxide:					
oral toxicity	:	LD50 (Rat): >	5,000 mg/kg		
Acute inhalation toxicity		LC50 (Rat): > 6.82 mg/l Exposure time: 4 h Test atmosphere: dust/mist Assessment: The substance or mixture has no acute inhala- tion toxicity			
	ilable	information.			
es	:	Rabbit Mild skin irritation			
	:	Rabbit			
t	:	No skin irritatio	on		
		on			
onents:					
tan:					
es t	:	RabbitSevere irritation			
dipine Besylate:					
lipille besylate.					
	tan: oral toxicity dipine Besylate: oral toxicity um dioxide: oral toxicity inhalation toxicity inhalation toxicity corrosion/irritation assified based on avaionents: tan: es um dioxide: es us eye damage/eye i es serious eye damago onents: tan: es	tan: oral toxicity : dipine Besylate: oral toxicity : um dioxide: oral toxicity : inhalation toxicity : inhalation toxicity : assified based on available onents: tan: es : um dioxide: es : um dioxide: es : us eye damage/eye irritation es serious eye damage. onents: tan: es : us eye damage/eye irritation es serious eye damage.	tan: oral toxicity : LD50 (Mouse) LDLo (Rat): 20 LDLo (Mouse) dipine Besylate: oral toxicity : LD50 (Rat): 39 um dioxide: oral toxicity : LD50 (Rat): > inhalation toxicity : LC50 (Rat): > Exposure time Test atmosphe Assessment: T tion toxicity corrosion/irritation assified based on available information. onents: tan: es : Rabbit tan: es : Rabbit imu dioxide: es : Rabbit es : Rabbit		



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Titan	ium dioxide:		
Speci	ies	: Rabbit	
Resu		: No eye irritati	on
_			
	iratory or skin sens	itisation	
_	sensitisation		
-	cause an allergic skin		
-	iratory sensitisation		
	lassified based on av	ailable information.	
<u>Com</u>	ponents:		
Losa	rtan:		
Test		: Maximisation	Test
	sure routes	: Skin contact	
Speci		: Guinea pig	
	ssment		evidence of skin sensitisation in humans
Resu	π	: positive	
Titan	ium dioxide:		
Test	Tvpe	: Local lymph r	node assay (LLNA)
	sure routes	: Skin contact	
Speci		: Mouse	
Resu	lt	: negative	
Not c <u>Com</u> Cellu			
Geno		. Teet Turner De	
	toxicity in vitro	Result: negat	acterial reverse mutation assay (AMES) ive
	toxicity in vitro	Result: negat	vitro mammalian cell gene mutation test
	toxicity in vitro	Result: negat Test Type: In Result: negat : Test Type: Ma cytogenetic a Species: Mou	ive vitro mammalian cell gene mutation test ive ammalian erythrocyte micronucleus test (in viv ssay) ise oute: Ingestion
	toxicity in vivo	Result: negat Test Type: In Result: negat : Test Type: Ma cytogenetic a Species: Mou Application Re	ive vitro mammalian cell gene mutation test ive ammalian erythrocyte micronucleus test (in viv ssay) ise oute: Ingestion
Geno Losa	toxicity in vivo	Result: negat Test Type: In Result: negat : Test Type: Ma cytogenetic a Species: Mou Application Re	ive vitro mammalian cell gene mutation test ive ammalian erythrocyte micronucleus test (in viv ssay) ise oute: Ingestion ive vitro assay



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		Test Type: Alkaline elution assay Result: negative	
		Test Type: Chromosomal aberration Result: negative	
Geno	toxicity in vivo	: Test Type: Chromosomal aberration Result: negative	
Amlo	dipine Besylate:		
	toxicity in vitro	: Test Type: Bacterial reverse mutation assay (Al Result: negative	/IES)
		Test Type: Chromosome aberration test in vitro Result: negative	
Titan	ium dioxide:		
Geno	toxicity in vitro	: Test Type: Bacterial reverse mutation assay (Al Result: negative	/IES)
Geno	toxicity in vivo	: Test Type: In vivo micronucleus test Species: Mouse	
		Result: negative	
	nogenicity	Result: negative	
Not cl	lassified based on av	Result: negative	
Not cl <u>Com</u>	lassified based on av	Result: negative	
Not cl <u>Com</u> Cellu	lassified based on av ponents: lose:	Result: negative	
Not cl <u>Com</u> Cellu Speci	lassified based on av ponents: lose: es	Result: negative	
Not cl <u>Com</u> Cellu Speci Applio	lassified based on av ponents: lose: les cation Route	Result: negative	
Not cl <u>Com</u> Cellu Speci Applio	lassified based on av ponents: lose: les cation Route sure time	Result: negative ailable information. : Rat : Ingestion	
Not cl <u>Comj</u> Cellu Speci Applic Expos Resul	lassified based on av ponents: lose: les cation Route sure time lt	Result: negative ailable information. : Rat : Ingestion : 72 weeks	
Not cl Com Cellu Speci Applic Expos Resul	lassified based on av <u>ponents:</u> lose: les cation Route sure time It rtan:	Result: negative ailable information. : Rat : Ingestion : 72 weeks : negative	
Not cl <u>Com</u> Cellu Speci Applic Expos Resul Losa Speci	lassified based on av <u>ponents:</u> lose: les cation Route sure time It rtan:	Result: negative ailable information. : Rat : Ingestion : 72 weeks	
Not cl Comj Cellu Speci Applic Expos Resul Losa Speci Applic Expos	lassified based on av <u>ponents:</u> lose: les cation Route sure time lt rtan: les	Result: negative railable information. : Rat : Ingestion : 72 weeks : negative : Mouse : Oral : 92 weeks	
Not cl Comj Cellu Speci Applic Expos Resul Losa Speci Applic	lassified based on av <u>ponents:</u> lose: les cation Route sure time lt rtan: les cation Route sure time	Result: negative ailable information. : Rat : Ingestion : 72 weeks : negative : Mouse : Oral	
Not cl <u>Comp</u> Speci Applic Expos Resul Speci Applic Expos Dose Resul	lassified based on av <u>ponents:</u> lose: les cation Route sure time lt rtan: les cation Route sure time lt	Result: negative railable information. : Rat : Ingestion : 72 weeks : negative : Mouse : Oral : 92 weeks : 200 mg/kg body weight : negative	
Not cl Comp Cellu Speci Applic Expos Resul Speci Applic Expos Dose Resul	lassified based on av <u>ponents:</u> lose: les cation Route sure time lt rtan: les cation Route sure time lt lt lt lt	Result: negative railable information. : Rat : Ingestion : 72 weeks : negative : Mouse : Oral : 92 weeks : 200 mg/kg body weight	
Not cl Com Cellu Speci Applic Expos Resul Speci Applic Expos Dose Resul Speci Applic	lassified based on av <u>ponents:</u> lose: les cation Route sure time lt rtan: les cation Route sure time lt	Result: negative ailable information. : Rat : Ingestion : 72 weeks : negative : Mouse : Oral : 92 weeks : 200 mg/kg body weight : negative : Rat	
Not cl Com Cellu Speci Applic Expos Resul Speci Applic Expos Dose Resul Speci Applic	lassified based on av <u>ponents:</u> lose: les cation Route sure time tt rtan: les cation Route sure time lt les cation Route sure time lt	Result: negative ailable information. : Rat : Ingestion : 72 weeks : negative : Mouse : Oral : 92 weeks : 200 mg/kg body weight : negative : Rat : Oral : Oral	
Not cl <u>Comp</u> <u>Cellu</u> Speci Applic Expos Resul Speci Applic Expos Resul Speci Applic Expos Resul Speci Applic Expos Resul	lassified based on av <u>ponents:</u> lose: les cation Route sure time lt rtan: les cation Route sure time lt lt lt lt lt lt lt lt lt lt	Result: negative ailable information. : Rat : Ingestion : 72 weeks : negative : Mouse : Oral : 92 weeks : 200 mg/kg body weight : negative : Rat : Oral : 105 weeks : 270 mg/kg body weight	
Not cl Comp Cellu Speci Applic Expos Resul Speci Applic Expos Dose Resul Speci Applic Expos Dose Resul Applic Expos Dose Resul Applic Expos Dose Resul Applic Expos Dose Resul Applic Expos Applic Expos Resul Applic Expos Resul Applic Expos Resul Applic Expos Resul Applic Expos Resul Applic Expos Resul Applic Expos Resul Applic Expos Resul Applic Expos Resul Applic Expos Resul Applic Expos Resul Applic Expos Resul Applic Expos Resul Applic Expos Resul Applic Expos Resul Applic Expos Resul Applic Expos Applic Expos Applic Expos Applic Expos Applic Expos Applic Expos Applic Expos Applic Expos Applic Expos Applic Expos Applic Expos Applic Expos Applic Expos Applic Expos Applic Expos Applic Resul Applic	lassified based on av <u>ponents:</u> lose: les cation Route sure time t rtan: les cation Route sure time lt lt les cation Route sure time lt lt les cation Route sure time lt lt lt dipine Besylate:	Result: negative ailable information. : Rat : Ingestion : 72 weeks : negative : Mouse : Oral : 92 weeks : 200 mg/kg body weight : negative : Rat : Oral : 270 mg/kg body weight : 105 weeks : 270 mg/kg body weight : negative	
Not cl Comp Cellu Speci Applic Expos Resul Speci Applic Expos Dose Resul Speci Applic Expos Dose Resul Speci Applic Expos Dose Resul Speci Applic Expos Dose Resul Speci Applic Expos Dose Resul Speci Applic Expos Dose Resul Speci Applic Expos Dose Resul Speci Applic Expos Dose Resul Speci Applic Expos Dose Resul Speci Applic Expos Dose Resul Speci Applic Expos Dose Resul Speci Applic Expos Dose Resul Speci Applic Expos Dose Resul Speci	lassified based on av <u>ponents:</u> lose: les cation Route sure time t rtan: les cation Route sure time lt lt les cation Route sure time lt lt les cation Route sure time lt lt lt dipine Besylate:	Result: negative ailable information. : Rat : Ingestion : 72 weeks : negative : Mouse : Oral : 92 weeks : 200 mg/kg body weight : negative : Rat : Oral : 105 weeks : 270 mg/kg body weight	



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Resul	t	: negative	
Speci	66	: Rat	
•	ation Route	: Oral	
	sure time	: 2 Years	
Resul		: negative	
Titani	um dioxide:		
Speci	00	: Rat	
•	ation Route	: inhalation (due	st/mict/fumo)
	sure time	: 2 Years	svinisviune)
Metho		: OECD Test G	uidalina 152
Resul		: positive	more mode of eaties may not be relevant in by
Rema	IKS	mans.	m or mode of action may not be relevant in hu
Carcir ment	nogenicity - Assess-	: Limited evider animals.	nce of carcinogenicity in inhalation studies with
	lamage the unborn chi ause harm to breast-fe		
-	oonents:		
-	oonents:		
<u>Comp</u> Cellul	oonents:	: Test Type: On Species: Rat	e-generation reproduction toxicity study
<u>Comp</u> Cellul	oonents: lose:	: Test Type: On	oute: Ingestion
Comp Cellul Effect	oonents: lose:	: Test Type: On Species: Rat Application Ro Result: negation : Test Type: Fe	oute: Ingestion
Comp Cellul Effect	oonents: lose: s on fertility	: Test Type: On Species: Rat Application Ro Result: negati : Test Type: Fe Species: Rat	oute: Ingestion ve rtility/early embryonic development
Comp Cellul Effect	oonents: lose: s on fertility	: Test Type: On Species: Rat Application Ro Result: negation : Test Type: Fe	oute: Ingestion ve rtility/early embryonic development oute: Ingestion
Comp Cellul Effect	oonents: lose: s on fertility s on foetal develop-	 Test Type: On Species: Rat Application Ro Result: negative Test Type: Fe Species: Rat Application Ro 	oute: Ingestion ve rtility/early embryonic development oute: Ingestion
Comp Cellul Effect Effect ment	oonents: lose: s on fertility s on foetal develop-	 Test Type: On Species: Rat Application Ro Result: negative Test Type: Fe Species: Rat Application Ro 	oute: Ingestion ve rtility/early embryonic development oute: Ingestion ve
Comp Cellul Effect Effect ment	oonents: lose: s on fertility s on foetal develop-	 Test Type: On Species: Rat Application Ro Result: negative Test Type: Fe Species: Rat Application Ro Result: negative 	oute: Ingestion ve rtility/early embryonic development oute: Ingestion ve
Comp Cellul Effect Effect ment	oonents: lose: s on fertility s on foetal develop-	 Test Type: On Species: Rat Application Ro Result: negative Test Type: Fe Species: Rat Application Ro Result: negative Test Type: Fe Species: Rat, 	oute: Ingestion ve rtility/early embryonic development oute: Ingestion ve rtility female
Comp Cellul Effect Effect ment	oonents: lose: s on fertility s on foetal develop-	 Test Type: On Species: Rat Application Ro Result: negativ Test Type: Fe Species: Rat Application Ro Result: negativ Test Type: Fe Species: Rat, Application Ro 	oute: Ingestion ve rtility/early embryonic development oute: Ingestion ve rtility female oute: Oral
Comp Cellul Effect Effect ment	oonents: lose: s on fertility s on foetal develop-	 Test Type: On Species: Rat Application Ro Result: negative Test Type: Fe Species: Rat Application Ro Result: negative Test Type: Fe Species: Rat, Application Ro Fertility: LOAE 	oute: Ingestion ve rtility/early embryonic development oute: Ingestion ve rtility female oute: Oral EL: 200 mg/kg body weight
Comp Cellul Effect Effect ment	oonents: lose: s on fertility s on foetal develop-	 Test Type: On Species: Rat Application Ro Result: negative Test Type: Fe Species: Rat Application Ro Result: negative Test Type: Fe Species: Rat, Application Ro Fertility: LOAE Result: female 	oute: Ingestion ve rtility/early embryonic development oute: Ingestion ve rtility female oute: Oral
Comp Cellul Effect Effect Effect	oonents: lose: s on fertility s on foetal develop-	 Test Type: On Species: Rat Application Ro Result: negative Test Type: Fe Species: Rat Application Ro Result: negative Test Type: Fe Species: Rat, Application Ro Fertility: LOAE Result: female Remarks: Mate Test Type: De 	oute: Ingestion ve rtility/early embryonic development oute: Ingestion ve rtility female oute: Oral EL: 200 mg/kg body weight e reproductive effects ernal toxicity observed. velopment
Comp Cellul Effect Effect ment	oonents: lose: s on fertility s on foetal develop- rtan: s on fertility	 Test Type: On Species: Rat Application Ro Result: negative Test Type: Fe Species: Rat Application Ro Result: negative Test Type: Fe Species: Rat, Application Ro Fertility: LOAE Result: female Remarks: Mat Test Type: De Species: Rabt 	oute: Ingestion ve rtility/early embryonic development oute: Ingestion ve rtility female oute: Oral EL: 200 mg/kg body weight e reproductive effects ernal toxicity observed. velopment oit
Comp Cellul Effect Effect Effect	oonents: lose: s on fertility s on foetal develop- rtan: s on fertility	 Test Type: On Species: Rat Application Ro Result: negative Test Type: Fe Species: Rat Application Ro Result: negative Test Type: Fe Species: Rat, Application Ro Fertility: LOAE Result: female Remarks: Mat Test Type: De Species: Rabt Application Ro 	evite: Ingestion ve rtility/early embryonic development oute: Ingestion ve rtility female oute: Oral EL: 200 mg/kg body weight e reproductive effects ernal toxicity observed. velopment oit oute: Oral
Comp Cellul Effect Effect Effect	oonents: lose: s on fertility s on foetal develop- rtan: s on fertility	 Test Type: On Species: Rat Application Ro Result: negative Test Type: Fe Species: Rat Application Ro Result: negative Test Type: Fe Species: Rat, Application Ro Fertility: LOAE Result: female Remarks: Mat Test Type: De Species: Rabb Application Ro General Toxic 	oute: Ingestion ve rtility/early embryonic development oute: Ingestion ve rtility female oute: Oral :L: 200 mg/kg body weight e reproductive effects ernal toxicity observed. velopment oit oute: Oral ity Maternal: NOAEL: 10 mg/kg body weight
Comp Cellul Effect Effect Effect	oonents: lose: s on fertility s on foetal develop- rtan: s on fertility	 Test Type: On Species: Rat Application Ro Result: negative Test Type: Fe Species: Rat Application Ro Result: negative Test Type: Fe Species: Rat, Application Ro Fertility: LOAE Result: female Remarks: Mat Test Type: De Species: Rabb Application Ro General Toxic Developmenta 	oute: Ingestion ve rtility/early embryonic development oute: Ingestion ve rtility female oute: Oral EL: 200 mg/kg body weight e reproductive effects ernal toxicity observed. velopment oit oute: Oral ity Maternal: NOAEL: 10 mg/kg body weight al Toxicity: NOAEL F1: 20 mg/kg body weight
Comp Cellul Effect Effect Effect	oonents: lose: s on fertility s on foetal develop- rtan: s on fertility	 Test Type: On Species: Rat Application Ro Result: negative Test Type: Fe Species: Rat Application Ro Result: negative Test Type: Fe Species: Rat, Application Ro Fertility: LOAE Result: female Remarks: Mate Test Type: De Species: Rabba Species: Rabba Application Ro General Toxic Developmenta Result: Embry 	oute: Ingestion ve rtility/early embryonic development oute: Ingestion ve rtility female oute: Oral :L: 200 mg/kg body weight e reproductive effects ernal toxicity observed. velopment oit oute: Oral ity Maternal: NOAEL: 10 mg/kg body weight



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Repro sessr	oductive toxicity - As- nent	Clear evidence of animal experimen	adverse effects on development, based on ts.
		Studies indicating od	a hazard to babies during the lactation peri-
Amlo	odipine Besylate:		
Effec	ts on fertility	Species: Rat Application Route	10 mg/kg body weight
		Species: Rabbit Application Route	25 mg/kg body weight
Effec ment	ts on foetal develop-	Species: Rat Application Route Developmental To	o-foetal development : Ingestion oxicity: LOAEL: 10 mg/kg body weight foetal development
		Species: Rabbit Application Route Developmental To	o-foetal development : Ingestion oxicity: NOAEL: 10 mg/kg body weight on foetal development
		Species: Mouse Application Route Developmental To Result: Effects on	o-foetal development : Ingestion oxicity: LOAEL: 1.6 mg/kg body weight foetal development al toxicity observed.

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.



sion 4	Revision Date: 2021/04/09	SDS Number: 49936-00017	Date of last issue: 2020/10/10 Date of first issue: 2015/01/26
<u>Comp</u>	onents:		
Losar	tan:		
	sure routes	: Ingestion	
	t Organs	-	accular system Stomach Kidnov
	sment		ascular system, Stomach, Kidney age to organs through prolonged or repeat
A3565	Sillent	exposure.	age to organs through protonged of repeat
Repea	ated dose toxicity		
<u>Comp</u>	onents:		
Cellul	ose:		
Specie	es	: Rat	
NOAE		: >= 9,000 mg/kg	
Applic	ation Route	: Ingestion	
Expos	sure time	: 90 Days	
Losar	tan:		
Specie	es	: Rat	
LÒAE		: 15 mg/kg	
Applic	ation Route	: Oral	
	sure time	: 309 d	
Numb	er of exposures	: daily	
	t Organs	: Blood, Kidney, (Cardio-vascular system, Stomach
Specie		: Dog	
NOAE		: 5 mg/kg	
	ation Route	: Oral	
	sure time	: 1 Months	
Symp	toms	: Salivation, Vom	iting
Speci		: Dog	
LOAE		: 25 mg/kg	
	ation Route	: Oral	
	sure time	: 53 Weeks	
	er of exposures	: daily	
Symp	toms	: Salivation, Vom	iting
Amlo	dipine Besylate:		
Specie		: Rat	
NOAE		: 15 mg/kg	
	ation Route	: Oral	
	sure time	: 90 d	
Rema	rks	: No significant a	dverse effects were reported
Titani	um dioxide:		
Specie	es	: Rat	
NOAE		: 24,000 mg/kg	
Applic	ation Route	: Ingestion	
	sure time	: 28 Days	



ersion 14	Revision Date: 2021/04/09		DS Number: 936-00017	Date of last issue: 2020/10/10 Date of first issue: 2015/01/26
		:	Rat 10 mg/m3 inhalation (dust/n 2 yr	nist/fume)
-	ration toxicity lassified based on availa	blo	information	
	ponents:	able		
Losa		atio	n	
Expe	rience with human exp	osi	ıre	
Com	ponents:			
Losa Eye c Inges	contact	:	Symptoms: Eye i Symptoms: hypo	rritation tension, tachycardia
	odipine Besylate: contact tion	:	Symptoms: Seve Symptoms: Naus Oedema, Palpita	ea, Abdominal pain, Fatigue, Headache,
2. ECOL	OGICAL INFORMATIO	N		
Ecote	oxicity			
Com	ponents:			
Cellu Toxic	lose: ity to fish	:	Exposure time: 4	tipes (Japanese medaka)): > 100 mg/l 8 h on data from similar materials
Losa	rtan:			
Toxic	ity to fish	:	LC50 (Oncorhynd 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 ⁻ est 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	

Method: FDA 4.01



ersion 14	Revision Date: 2021/04/09		936-00017	Date of last issue: 2020/10/10 Date of first issue: 2015/01/26	
Toxicity to fish (Chronic tox- icity) Toxicity to daphnia and other aquatic invertebrates (Chron- ic toxicity)		:	: NOEC (Pimephales promelas (fathead minnow)): 10 mg/l Exposure time: 32 d Method: OECD Test Guideline 210		
		:	: NOEC (Daphnia magna (Water flea)): 100 mg/l Exposure time: 21 d Method: OECD Test Guideline 211		
Amlo	dipine Besylate:				
Toxici	ty to fish	:	LC50 (Pimephale Exposure time: 96	s promelas (fathead minnow)): 2.7 mg/l S h	
	ty to daphnia and other ic invertebrates	:	EC50 (Daphnia m Exposure time: 48	hagna (Water flea)): 3.2 mg/l 3 h	
Toxici plants	ty to algae/aquatic	:	IC50 (Pseudokirch Exposure time: 72 Method: OECD To		
Titani	um dioxide:				
Toxici	ty to fish	:	LC50 (Oncorhync Exposure time: 96 Method: OECD Te		
	ty to daphnia and other ic invertebrates	:	EC50 (Daphnia m Exposure time: 48	hagna (Water flea)): > 100 mg/l 3 h	
Toxici plants	ty to algae/aquatic	:	EC50 (Skeletoner Exposure time: 72	ma costatum (marine diatom)): > 10,000 mg 2 h	
Toxici	ty to microorganisms	:	EC50: > 1,000 mg Exposure time: 3 Method: OECD To	h	
Persis	stence and degradabili	ity			
Comp	oonents:				
Cellul	ose:				
Biode	gradability	:	Result: Readily bi	odegradable.	
Losar	tan:				
Stabili	ity in water	:	Hydrolysis: < 10 %	%(5 d)	
Bioac	cumulative potential				
Comp	oonents:				
	tan: on coefficient: n- ol/water	:	log Pow: 1.2		
Amlo	dipine Besylate:				
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	tition coefficient: n- anol/water	:	log Pow: 3	
	bility in soil data available			
	her adverse effects data available			
13. DISF	POSAL CONSIDERATIO	NS		
Wa Cor	posal methods ste from residues ntaminated packaging	:	Empty containers dling site for recy	cordance with local regulations. s should be taken to an approved waste han- cling or disposal. pecified: Dispose of as unused product.
	NSPORT INFORMATIO	N		
••••	RTDG regulated as a dangerou	s goo	od	
	A-DGR regulated as a dangerou	s goo	od	
=)G-Code regulated as a dangerou	s goo	od	
	nsport in bulk accordin applicable for product as	-		POL 73/78 and the IBC Code

15. REGULATORY INFORMATION

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

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

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

Hazardous substances that must be registered : Not applicable

Government Regulation No. 74 of 2001 on the Management of Hazardous and Toxic Substances

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



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	lation of the Minister sion of Hazardous Ma		009 on Procurement, Distribution and Su-
	of Hazardous Materials oution and Supervision	s Restricted to Import,	, : Not applicable
The c	omponents of this pr	oduct are reported i	n the following inventories:
AICS		: not determined	-
DSL		: not determined	
IECS	C	: not determined	

16. OTHER INFORMATION

Further information		
Sources of key data used to compile the Safety Data Sheet	:	Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agen- cy, http://echa.europa.eu/
Date format	:	yyyy/mm/dd
Full text of other abbreviatio	ns	
ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)
ID OEL	:	Indonesia. Occupational Exposure Limits
ACGIH / TWA ID OEL / NAB	:	8-hour, time-weighted average Long term exposure limit

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, Evalua-



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tion, 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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