

Version 4.4	Revision Date: 16.10.2020		S Number: 068-00016	Date of last issue: 23.03.2020 Date of first issue: 30.09.2014		
1. PRODUCT AND COMPANY IDENTIFICATION						
Product name		:	Losartan / Hydrochlorothiazide Formulation			
Manuf	acturer or supplier's c	letai	ils			
Compa	any	:	Organon & Co.			
Address		:	30 Hudson Street, 33nd floor Jersey City, New Jersey, U.S.A 07302			
Teleph	Telephone		551-430-6000			
Emerg	Emergency telephone number		215-631-6999			
E-mail	address	:	EHSSTEWARD	@organon.com		
Recor	nmended use of the cl	nem	ical and restriction	ons on use		
Recon	nmended use	:	Pharmaceutical			

2. HAZARDS IDENTIFICATION

Manufacture, Storage and Import of Hazardous Chemicals Rules 1989

Classification

Not classified as hazardous according to criteria laid down in Part I of Schedule-1.

GHS Classification	
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Acute toxicity (Oral)	:	Category 5
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 (Kidney, Parathyroid gland)
Specific target organ toxicity - repeated exposure (Oral)	:	Category 2 (Blood, Cardio-vascular system, Stomach, Kidney)
GHS label elements		
Hazard pictograms	:	
Signal word	:	Danger



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Haza	rd statements	H317 May ca H318 Causes H360D May c H362 May ca H373 May ca gland) throug H373 May ca	harmful if swallowed. use an allergic skin reaction. serious eye damage. lamage the unborn child. use harm to breast-fed children. use damage to organs (Kidney, Parathyroid h prolonged or repeated exposure. use damage to organs (Blood, Cardio-vascular ach, Kidney) through prolonged or repeated ex- llowed.
Preca	autionary statements	P260 Do not I P263 Avoid c P264 Wash s P270 Do not o P272 Contam the workplace	ontact during pregnancy and while nursing. kin thoroughly after handling. eat, drink or smoke when using this product. inated work clothing should not be allowed out of e. rotective gloves/ protective clothing/ eye protec-
		rash occurs: (P302 + P352 P305 + P354 with water for sent and easy P318 IF expo	+ P317 IF SWALLOWED or if skin irritation or Get medical help. IF ON SKIN: Wash with plenty of water. + P338 + P317 IF IN EYES: Immediately rinse several minutes. Remove contact lenses, if pre- / to do. Continue rinsing. Get medical help. sed or concerned, get medical advice. Take off contaminated clothing and wash it before
		Storage: P405 Store Io	cked up.
		Disposal: P501 Dispose disposal plant	e of contents/ container to an approved waste

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	>= 30 - < 50
Losartan	124750-99-8	>= 20 - < 30

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Losartan / Hydrochlorothiazide Formulation

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	Starch Hydrochlorothiazide		9005-25-8 58-93-5	>= 10 - < 20 >= 1 - < 5				
4. F	IRST 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. 						
	If inhaled	: If inhaled, removed Get medical attempts						
	In case of skin contact	: In case of conta of water. Remove contam Get medical atte Wash clothing b	ct, immediately flush skin ninated clothing and shoe ention.					
	In case of eye contact	for at least 15 m If easy to do, rei	ct, immediately flush eyes inutes. move contact lens, if worr ention immediately.					
	If swallowed	: If swallowed, DO Get medical atte	O NOT induce vomiting.					
	Most important symptoms and effects, both acute and delayed	: May be harmful May cause an a Causes serious May damage the May cause harn May cause dam exposure.	if swallowed. Ilergic skin reaction. eye damage.					
	Protection of first-aiders	and use the reco	ders should pay attention ommended personal prote ial for exposure exists (se	ective equipment				
	Notes to physician		tically and supportively.					
5. F	IREFIGHTING MEASURES							
	Suitable extinguishing media	: Water spray Alcohol-resistan Carbon dioxide Dry chemical						
	Unsuitable extinguishing media	: None known.						
	Specific hazards during fire- fighting	concentrations, potential dust ex	g dust; fine dust disperse and in the presence of ar plosion hazard. nbustion products may be	ignition source is a				
	Hazardous combustion prod- ucts	: Carbon oxides Chlorine compo Nitrogen oxides						



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				Chlorine compour Sulphur oxides	nds			
	Specifi ods	c extinguishing meth-	:	cumstances and t Use water spray t	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			
		l protective equipment ighters	:	Evacuate area.				
6. AC	CIDEN	NTAL RELEASE MEAS	SUF	RES				
ti	tive equ	al precautions, protec- uipment and emer- procedures	:	Follow safe handl	tective equipment. ing advice (see section 7) and personal pro- recommendations (see section 8).			
E	Enviror	nmental precautions	:	Retain and dispos	akage or spillage if safe to do so. se of contaminated wash water. should be advised if significant spillages			
		ds and materials for ament and cleaning up	:	tainer for disposa Avoid dispersal of with compressed Dust deposits sho es, as these may leased into the att Local or national posal of this mate employed in the of mine which regula Sections 13 and 1	dust in the air (i.e., clearing dust surfaces			
7. HA		NG AND STORAGE						
T	Techni	cal measures	:	causing an explose Provide adequate	precautions, such as electrical grounding			
L	Local/T	otal ventilation	:		nert atmospheres. Ition is unavailable, use with local exhaust			
Þ	Advice	on safe handling	:	ventilation. 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 as-



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		Minimize dus Keep contain Keep away fr Take precaut Do not eat, d	er tightly closed. t generation and accumulation. er closed when not in use. om heat and sources of ignition. ionary measures against static discharges. rink or smoke when using this product. prevent spills, waste and minimize release to the			
Col	nditions for safe storage	 Keep in properly labelled containers. Store locked up. Keep tightly closed. Store in accordance with the particular national regulation 				
Ма	terials to avoid		with the following product types:			

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis				
Cellulose	9004-34-6	TWA	10 mg/m3	ACGIH				
Losartan	124750-99-8	TWA	100 µg/m3 (OEB 2)	Internal				
Starch	9005-25-8	TWA	10 mg/m3	ACGIH				
Hydrochlorothiazide	58-93-5	TWA	100 µg/m3 (OEB 2)	Internal				
Engineering measures : Use feasible engineering controls to minimize exposure to compound. All engineering controls should be implemented by facility design and operated in accordance with GMP principles to protect products, workers, and the environment.								
Personal protective equipme								
Respiratory protection Filter type	sure assessm ommended g	If adequate local exhaust ventilation is not available or expo- sure assessment demonstrates exposures outside the rec- ommended guidelines, use respiratory protection. Particulates type						
Hand protection Material	: Chemical-res	istant gloves						
Eye protection	If the work en mists or aeros Wear a faces potential for c aerosols. : Work uniform	Wear safety glasses with side shields or goggles. If the work environment or activity involves dusty conditions, mists or aerosols, wear the appropriate goggles. Wear a faceshield or other full face protection if there is a potential for direct contact to the face with dusts, mists, or aerosols. Work uniform or laboratory coat. If exposure to chemical is likely during typical use, provide eye						
Hygiene measures			showers close to the v					



/ersion 1.4	Revision Date: 16.10.2020		S Number: 068-00016	Date of last issue: 23.03.2020 Date of first issue: 30.09.2014
			Contaminated w workplace. Wash contamina The effective op engineering con- appropriate dego	not eat, drink or smoke. ork clothing should not be allowed out of the ated clothing before re-use. eration of a facility should include review of trols, proper personal protective equipment, owning and decontamination procedures, e monitoring, medical surveillance and the ative controls.
. PHYSIC	CAL AND CHEMICAL PR	ROP	ERTIES	
Appe	arance	:	powder	
Colou	ır	:	yellow	
Odou	ır	:	odourless	
Odou	r Threshold	:	No data availab	le
рН		:	No data availab	le
Meltir	ng point/freezing point	:	No data availab	le
Initial range	boiling point and boiling	:	No data availab	le
Flash	point	:	Not applicable	
Evap	oration rate	:	Not applicable	
Flam	mability (solid, gas)	:	May form explo dling or other m	sive dust-air mixture during processing, han eans.
Flam	mability (liquids)	:	No data availab	le
	r explosion limit / Upper nability limit	:	No data availab	le
	r explosion limit / Lower nability limit	:	No data availab	le
Vapo	ur pressure	:	Not applicable	
Relat	ive vapour density	:	Not applicable	
Relat	ive density	:	No data availab	le
Dens	ity	:	No data availab	le
	pility(ies) ater solubility	:	No data availab	le
	ion coefficient: n- ol/water	:	Not applicable	

SAFETY DATA SHEET



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Auto-iç	gnition temperature	:	No data available				
Decomposition temperature		:	No data available				
Viscos Vise	ity cosity, kinematic	:	Not applicable				
Explos	ive properties	:	Not explosive				
Oxidizing properties		:	: The substance or mixture is not classified as ox				
Particle	e size	:	No data available				
. STABIL	ITY AND REACTIVITY	,					
	vity cal stability ility of hazardous reac-	:	Stable under nor May form explosi dling or other me	ve dust-air mixture during processing, han-			
Condit	ions to avoid	:	Heat, flames and Avoid dust forma				
Incompatible materials Hazardous decomposition products			Oxidizing agentsNo hazardous decomposition products are known.				
. TOXICO	DLOGICAL INFORMAT	ION					
Inform exposi	ation on likely routes of ure	:	Inhalation Skin contact Ingestion Eye contact				
Acute	toxicity						
May be	e harmful if swallowed.						
May be <u>Produ</u>							
Produ		:	Acute toxicity esti Method: Calculati	nate: 2,201 mg/kg on method			
Produ Acute	<u>ct:</u>	:					
Produ Acute	<u>ct:</u> oral toxicity onents:	:					
Produ Acute Comp Cellule	<u>ct:</u> oral toxicity onents:			on method			
Produ Acute Comp Cellule Acute	<u>ct:</u> oral toxicity <u>onents:</u> ose:	:	Method: Calculati	on method 00 mg/kg mg/l n			
Produ Acute Comp Cellula Acute Acute	<u>ct:</u> oral toxicity <u>onents:</u> ose: oral toxicity	:	Method: Calculation LD50 (Rat): > 5,00 LC50 (Rat): > 5.8 Exposure time: 4	on method 00 mg/kg mg/l n dust/mist			



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	Acute c	oral toxicity	:	LD50 (Mouse): 1,2	257 - 1,590 mg/kg			
				LDLo (Rat): 200 m	ng/kg			
				LDLo (Mouse): 40	0 mg/kg			
;	Starch	:						
	Acute c	oral toxicity	:	LD50 (Rat): > 5,000 mg/kg				
	Acute c	dermal toxicity	:	LD50 (Rabbit): > 2	2,000 mg/kg			
I	Hydrod	chlorothiazide:						
	Acute c	oral toxicity	:	LD50 (Rat): > 2,75	50 mg/kg			
				LD50 (Mouse): > 2	2,830 mg/kg			
		oxicity (other routes of stration)	:	LD50 (Rat): 990 m Application Route				
				LD50 (Mouse): 59 Application Route				
ļ	Not cla	orrosion/irritation ssified based on availa onents:	ble	information.				
	Losarta							
	Specie: Result	S	:	Rabbit Mild skin irritation				
I	Hydrod	chlorothiazide:						
	Specie: Result	S	:	Rabbit No skin irritation				
I	Result		•	NO SKIT ITILATION				
		s eye damage/eye irri s serious eye damage.	tati	on				
		onents:						
-	Losarta							
;	Specie		:	Rabbit				
	Result		:	Severe irritation				
:	Starch	:						
	Specie: Result	S	:	Rabbit No eye irritation				
	l harder -							
	Hydrod Specie:	s s	:	Rabbit				
	Result	-	:	Mild eye irritation				
				0 / 17				



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Resp	iratory or skin sens	itisation	
	sensitisation cause an allergic skin	reaction.	
-	iratory sensitisation lassified based on ava		
<u>Com</u>	oonents:		
Losa	rtan:		
Speci	sure routes les ssment	: Maximisation : Skin contact : Guinea pig : Probability or : positive	Test evidence of skin sensitisation in humans
Starc	h:		
Test Expos Speci Resu	sure routes les	: Maximisation : Skin contact : Guinea pig : negative	Test
Not c	lassified based on av	ailable information	
Com	lassified based on ava ponents:	ailable information.	
<u>Com</u> Cellu	oonents:		acterial reverse mutation assay (AMES) ive
<u>Com</u> Cellu	oonents: lose:	: Test Type: Ba Result: negat	ive vitro mammalian cell gene mutation test
<u>Com</u> Cellu Geno	oonents: lose:	 Test Type: Ba 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
<u>Com</u> Cellu Geno	oonents: lose: toxicity in vitro toxicity in vivo	 Test Type: Ba Result: negat Test Type: In Result: negat Test Type: Ma cytogenetic a Species: Mou Application R 	ive vitro mammalian cell gene mutation test ive ammalian erythrocyte micronucleus test (in viv ssay) ise oute: Ingestion
Com Cellu Geno Geno	oonents: lose: toxicity in vitro toxicity in vivo	 Test Type: Ba Result: negat Test Type: In Result: negat Test Type: Ma cytogenetic a Species: Mou Application R 	ive vitro mammalian cell gene mutation test ive ammalian erythrocyte micronucleus test (in viv ssay) ise oute: Ingestion ive vitro assay
Com Cellu Geno Geno	oonents: lose: toxicity in vitro toxicity in vivo	 Test Type: Ba Result: negat Test Type: In Result: negat Test Type: Ma cytogenetic a Species: Mou Application R Result: negat Test Type: in Result: negat Test Type: In 	ive vitro mammalian cell gene mutation test ive ammalian erythrocyte micronucleus test (in viv ssay) use oute: Ingestion ive vitro assay ive vitro mammalian cell gene mutation test Chinese hamster ovary cells



rsion	Revision Date: 16.10.2020	SDS Number: 17068-00016	Date of last issue: 23.03.2020 Date of first issue: 30.09.2014			
		Test Type: (Result: neg	Chromosomal aberration ative			
Genotoxicity in vivo			Test Type: Chromosomal aberration Result: negative			
Starc	h:					
Genotoxicity in vitro			Test Type: Bacterial reverse mutation assay (AMES) Result: negative			
Hydro	ochlorothiazide:					
-	toxicity in vitro	: Test Type: I Result: neg	Bacterial reverse mutation assay (AMES) ative			
			Chromosomal aberration n: Chinese hamster ovary cells ative			
			sister chromatid exchange assay a: Chinese hamster ovary cells tive			
			n vitro assay n: mouse lymphoma cells tive			
Genotoxicity in vivo						
		Test Type: i Species: Mo Cell type: B Result: neg	one marrow			
	cell mutagenicity -	: Weight of e cell mutage	vidence does not support classification as a gern n.			
Carci	nogenicity					
	assified based on ava	ilable information.				
<u>Com</u>	oonents:					
Cellu	lose:					
Speci	es	: Rat				
Applic	cation Route	: Ingestion				
Expos Resul	sure time t	: 72 weeks : negative	72 weeks negative			
	rtan-					
Losa	Lall.					



1	Revision Date: 16.10.2020	SDS Number: 17068-00016	Date of last issue: 23.03.2020 Date of first issue: 30.09.2014			
	cation Route sure time t	: Oral : 92 weeks : 200 mg/kg boo : negative	dy weight			
	cation Route sure time	: Rat : Oral : 105 weeks : 270 mg/kg boo : negative	dy weight			
	ochlorothiazide:					
	cation Route sure time	: Mouse, female : Oral : 2 Years : negative				
	cation Route sure time	: Mouse, male : Oral : 2 Years : equivocal				
	cation Route sure time	: Rat, male and : Oral : 2 Years : negative	: 2 Years			
Repro						
May c	oductive toxicity lamage the unborn chi cause harm to breast-fo					
May c May c	lamage the unborn chi					
May o May o <u>Comp</u> Cellu	damage the unborn chi cause harm to breast-fe conents:	ed children.				
May o May o <u>Comp</u> Cellui Effect	damage the unborn chi cause harm to breast-fo ponents: lose:	ed children. : Test Type: On Species: Rat Application Ro Result: negativ	oute: Ingestion /e rtility/early embryonic development oute: Ingestion			
May of May of Comp Cellul Effect	damage the unborn chi cause harm to breast-fo conents: lose: is on fertility is on foetal develop-	ed children. : Test Type: On Species: Rat Application Ro Result: negativ : Test Type: Fe Species: Rat Application Ro	oute: Ingestion /e rtility/early embryonic development oute: Ingestion			
May of May of Comp Cellul Effect Effect ment	damage the unborn chi cause harm to breast-fo conents: lose: is on fertility is on foetal develop-	 Ed children. Test Type: On Species: Rat Application Ro Result: negative Test Type: Fer Species: Rat Application Ro Result: negative Test Type: Fer Species: Rat, Application Ro Fertility: LOAE Result: female 	oute: Ingestion ve rtility/early embryonic development oute: Ingestion ve rtility female			



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	ment		Species: Rabbit Application Route: Oral General Toxicity Maternal: NOAEL: 10 mg/kg body we Developmental Toxicity: NOAEL F1: 20 mg/kg body we Result: Embryotoxic effects and adverse effects on the spring were detected only at high maternally toxic dose teratogenic effects				
	Reproductive toxicity - As- sessment		:	Clear evidence of animal experimen	adverse effects on development, based on ts.		
				Studies indicating od	a hazard to babies during the lactation peri-		
	Hydroo	chlorothiazide:					
	Effects on fertility		:	Test Type: Fertility Species: Rat, mal Application Route Fertility: NOAEL: Result: Effects on	e and female : oral (feed) 4 mg/kg body weight		
				Test Type: Fertility Species: Mouse, Mouse, Application Route Fertility: NOAEL: Result: Effects on	male and female : oral (feed) 100 mg/kg body weight		
	Effects on foetal develop- ment		:	Test Type: Develo Species: Mouse Application Route Developmental To Result: No teratog	: Oral oxicity: NOAEL: 3,000 mg/kg body weight		
				Test Type: Develo Species: Rat Application Route Developmental To Result: No teratog	: Oral oxicity: NOAEL: 1,000 mg/kg body weight		

STOT - single exposure

Not classified based on available information.

STOT - repeated exposure

May cause damage to organs (Kidney, Parathyroid gland) through prolonged or repeated exposure.

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



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<u>Com</u>	oonents:						
Losa	rtan:						
Targe	sure routes et Organs esment		Blood, Cardio-vascular system, Stomach, KidneyMay cause damage to organs through prolonged or repeated				
Hydro	ochlorothiazide:						
	et Organs ssment		 Kidney, Parathyroid gland Causes damage to organs through prolonged or repeated exposure. 				
Repe	ated dose toxicity						
<u>Com</u>	oonents:						
Cellu	lose:						
		: Rat : >= 9,000 mg/kg : Ingestion : 90 Days					
Losa	rtan:						
Expos Numb		: Rat : 15 mg/kg : Oral : 309 d : daily : Blood, Kidney, C	ardio-vascular system, Stomach				
	EL cation Route sure time	: Dog : 5 mg/kg : Oral : 1 Months : Salivation, Vomit	ing				
Expos	L cation Route sure time per of exposures	: Dog : 25 mg/kg : Oral : 53 Weeks : daily : Salivation, Vomit	ing				
Starc	h:						
	EL cation Route sure time	: Rat : >= 2,000 mg/kg : Skin contact : 28 Days : OECD Test Guid	eline 410				

Hydrochlorothiazide:



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Exp		 Rat, male and female 10 mg/kg Oral 2 yr Kidney, Parathyroid gland 			
Exp		 Mouse, male and female 300 - 550 mg/kg Oral 2 yr No significant adverse effects were reported 			
Exp	cies lication Route osure time get Organs	 Dog 50 - 200 mg/kg Oral 9 Months Parathyroid gland 			
Not	iration toxicity classified based on ava n ponents:	able information.			
Los	artan: aspiration toxicity classif	cation			
-	rochlorothiazide: aspiration toxicity classif	cation			
Ехр	erience with human ex	posure			
<u>Con</u>	nponents:				
Eye	artan: contact stion	Symptoms: Eye irritationSymptoms: hypotension, tachycardia			
Eye	rochlorothiazide: contact estion	 Symptoms: Eye irritation Symptoms: Dizziness, Headache, Fatigue, Nausea, Ab- dominal pain, hypotension, dry mouth, electrolyte imbalance, eye pain 			
12. ECO	LOGICAL INFORMATIO	N			
Eco	toxicity				
<u>Con</u>	nponents:				
0-11					

Cellulose:

Toxicity to fish

 LC50 (Oryzias latipes (Japanese medaka)): > 100 mg/l Exposure time: 48 h Remarks: Based on data from similar materials



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Losar	tan:			
Toxicity to fish		:	 LC50 (Oncorhynchus mykiss (rainbow trout)): > 929 Exposure time: 96 h Method: FDA 4.11 	
	Toxicity to daphnia and other aquatic invertebrates		EC50 (Daphnia magna (Water flea)): 331 mg/l Exposure time: 48 h Method: OECD Test Guideline 202	
Toxicit plants	Toxicity to algae/aquatic plants		NOEC (Microcys Exposure time: 1 Method: FDA 4.0	
			NOEC (Selenasi Exposure time: 1 Method: FDA 4.0	
Toxicit icity)	ty to fish (Chronic tox-	:		2 d ales promelas (fathead minnow) est Guideline 210
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)		:	NOEC: 100 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea) Method: OECD Test Guideline 211	
Hydro	chlorothiazide:			
•	ty to fish	:	LC50 (Pimephale Exposure time: 9	es promelas (fathead minnow)): > 500 mg/l 6 h
	Toxicity to daphnia and other aquatic invertebrates		EC50 (Daphnia magna (Water flea)): > 500 mg/l Exposure time: 48 h	
Persis	stence and degradabili	ity		
<u>Comp</u>	onents:			
Cellul	ose:			
Biode	gradability	:	Result: Readily b	iodegradable.
Losar	tan:			
Stabili	ty in water	:	Hydrolysis: < 10	%(5 d)
•	chlorothiazide:			
Stabili	ty in water	:	Hydrolysis: 46.2	%(96 h)
Bioac	cumulative potential			
<u>Comp</u>	onents:			
Losar	tan:			



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	ion coefficient: n- ol/water	: log Pow: 1.2	
	lity in soil ata available		
	r adverse effects ata available		
3. DISPC	SAL CONSIDERATIO	ONS	
Wast	osal methods e from residues aminated packaging	: Empty conta dling site for	n accordance with local regulations. iners should be taken to an approved waste han- recycling or disposal. ise specified: Dispose of as unused product.
4. TRAN	SPORT INFORMATIC	N	
Interi	national Regulations		
UNR ⁻ Not re	TDG egulated as a dangero	us good	
	-DGR egulated as a dangero	us good	
-	-Code egulated as a dangero	us good	
	sport in bulk accordin pplicable for product a	-	ents
5. REGU	LATORY INFORMAT	ON	
Safet ture	y, health and enviror	mental regulation	s/legislation specific for the substance or mix
The c AICS		roduct are reporte : not determin	d in the following inventories: ed
DSL		: not determin	ed
IECS	С	: not determin	ed
6. OTHE	R INFORMATION		
•••••			

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



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Date format		:	dd.mm.yyyy	
Full text of other abbrevia		ions		
ACG	ACGIH		: USA. ACGIH Threshold Limit Values (TLV)	
ACGIH / TWA		:	8-hour, time-weig	hted 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. 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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