

Version 8.4	Revision Date: 10/16/2020	-	OS Number: 082-00016	Date of last issue: 03/23/2020 Date of first issue: 09/30/2014
SECTION	1. IDENTIFICATION			
Produ	uct name	:	Losartan / Hydro	chlorothiazide Formulation
Manu	facturer or supplier's	deta	ails	
Comp Addre	pany name of supplier less	:	Organon & Co. 30 Hudson Stree Jersev City, New	t, 33nd floor Jersey, U.S.A 07302
	hone gency telephone il address	:	551-430-6000 215-631-6999 EHSSTEWARD@	
Reco	mmended use of the c	hen	nical and restricti	ons on use
Reco	mmended use	:	Pharmaceutical	
GHS 1910.	2. HAZARDS IDENTIFI classification in accor .1200) pustible dust			A Hazard Communication Standard (29 CFF
Serio	us eye damage	:	Category 1	
Skins	sensitization	:	Category 1	
Repro	oductive toxicity	:	Category 1B	
Effect	ts on or via lactation			
	ific target organ toxicity eated exposure	:	Category 1 (Kidn	ey, Parathyroid gland)
	ific target organ toxicity eated exposure (Oral)	:	Category 2 (Bloo	d, Cardio-vascular system, Stomach, Kidney)
GHS	label elements			
Haza	rd pictograms	:		
Signa	al Word	:	Danger	
Haza	rd Statements	:	handling or by ot concentrations in H317 May cause H318 Causes se H360D May dam H362 May cause H372 Causes da	are generated during further processing, her means, may form combustible dust a air. e an allergic skin reaction. rious eye damage. age the unborn child. harm to breast-fed children. mage to organs (Kidney, Parathyroid gland)

through prolonged or repeated exposure.

H373 May cause damage to organs (Blood, Cardio-vascular



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		system, Stoma exposure if sw	ach, Kidney) through prolonged or repeated allowed.				
Preca	autionary Statements	Prevention:					
		P202 Do not h and understoo P260 Do not b P263 Avoid co P264 Wash sk P270 Do not e P272 Contami the workplace.	reathe dust. ntact during pregnancy and while nursing. in thoroughly after handling. at, drink or smoke when using this product. nated work clothing must not be allowed out of ptective gloves, protective clothing, eye protectior				
		Response:					
		P305 + P351 - water for seve and easy to do CENTER. P308 + P313 I P333 + P313 I tion.	F ON SKIN: Wash with plenty of soap and water. + P338 + P310 IF IN EYES: Rinse cautiously with ral minutes. Remove contact lenses, if present b. Continue rinsing. Immediately call a POISON F exposed or concerned: Get medical attention. f skin irritation or rash occurs: Get medical atten- ontaminated clothing before reuse.				
		Storage: P405 Store loc	ked up.				
		Disposal:					
		•	of contents and container to an approved waste				
Othe	r hazards						
	act with dust can cause	e mechanical irritation	or drying of the skin.				
SECTION	3. COMPOSITION/IN	ORMATION ON INC	SREDIENTS				
	tance / Mixture						
	ponents	: Mixture					
	nical name	CAS-No.	Concentration (% w/w)				
Cellu		9004-34-6					
Losa		124750-99					
Starc	h	9005-25-8	>= 10 - < 20				
Hydro	ochlorothiazide	58-93-5	>= 1 - < 5				

Actual concentration is withheld as a trade secret

SECTION 4. FIRST AID MEASURES

General advice

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



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		When sym advice.	ptoms persist or in all cases of doubt seek medical				
lf inha	aled		If inhaled, remove to fresh air.				
In case of skin contact		: In case of of water. Remove c Get medic Wash clot	Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse.				
In case of eye contact		: In case of for at least If easy to o	y clean shoes before reuse. contact, immediately flush eyes with plenty of water 15 minutes. do, remove contact lens, if worn. al attention immediately.				
If swallowed		: If swallowe Get medic	If swallowed, DO NOT induce vomiting. Get medical attention. Rinse mouth thoroughly with water.				
Most important symptoms and effects, both acute and delayed		: May cause Causes se May dama May cause Causes da exposure. Contact w	Contact with dust can cause mechanical irritation or drying of				
Prote	ction of first-aiders	and use th	esponders should pay attention to self-protection, e recommended personal protective equipment potential for exposure exists (see section 8).				
Notes	to physician		ptomatically and supportively.				

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) Chlorine compounds Sulfur 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.



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	•	protective equipment ighters	:	Evacuate area. In the event of fire Use personal prot	e, wear self-contained breathing apparatus. ective equipment.
SECI	TION 6		ASE	EMEASURES	
t	tive equ	al precautions, protec- ipment and emer- procedures	:		ective equipment. Ing advice (see section 7) and personal ent recommendations (see section 8).
E	Environmental precautions		:	Retain and dispos	akage or spillage if safe to do so. e of contaminated wash water. hould be advised if significant spillages
-	Methods and materials for containment and cleaning up		:	container for dispo Avoid dispersal of with compressed a Dust deposits sho surfaces, as these released into the a Local or national r disposal of this ma employed in the c determine which r Sections 13 and 1	dust in the air (i.e., clearing dust surfaces

SECTION 7. HANDLING AND STORAGE

Technical measures	causing an explosion.	cumulate and ignite suspended dust utions, such as electrical grounding nospheres.
Local/Total ventilation	If sufficient ventilation is ventilation.	unavailable, use with local exhaust
Advice on safe handling	 Avoid contact during pre Do not get on skin or clo Do not breathe dust. Do not swallow. Do not get in eyes. Wash skin thoroughly aff Handle in accordance wi practice, based on the re assessment Keep container tightly clo Minimize dust generation Keep container closed will Keep away from heat an Take precautionary mea Do not eat, drink or smolitication 	ter handling. ith good industrial hygiene and safety esults of the workplace exposure osed. n and accumulation. <i>y</i> hen not in use.



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Conditions for safe storage		environment. : Keep in properly labeled containers. Store locked up.					
Materi	als to avoid		nce with the particular national regulations. the following product types: agents				

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Cellulose	9004-34-6	TWA	10 mg/m ³	ACGIH
		TWA (Res- pirable)	5 mg/m ³	NIOSH REL
		TWA (total)	10 mg/m ³	NIOSH REL
		TWA (total dust)	15 mg/m³	OSHA Z-1
		TWA (respir- able fraction)	5 mg/m³	OSHA Z-1
Losartan	124750-99-8	TWA	100 µg/m3 (OEB 2)	Internal
Starch	9005-25-8	TWA	10 mg/m ³	ACGIH
		TWA (Res- pirable)	5 mg/m³	NIOSH REL
		TWA (total)	10 mg/m ³	NIOSH REL
		TWA (total dust)	15 mg/m ³	OSHA Z-1
		TWA (respir- able fraction)	5 mg/m ³	OSHA Z-1
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 equipment

Respiratory protection : General and local exhaust ventilation is recommended to maintain vapor exposures below recommended limits. Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators. Protection provided by air purifying respirators against exposure to any



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Hand protection		hazardous chemical is limited. Use a positive pressure air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstance where air purifying respirators may not provio adequate protection.				
	aterial	: Chemical-resi	stant gloves			
Eye protection		If the work en mists or aeros Wear a faces	lasses with side shields or goggles. vironment or activity involves dusty conditions, sols, wear the appropriate goggles. hield or other full face protection if there is a irect contact to the face with dusts, mists, or			
	and body protection one measures	: If exposure to eye flushing s working place When using d Contaminated workplace. Wash contam The effective engineering c appropriate de industrial hygi	or laboratory coat. chemical is likely during typical use, provide ystems and safety showers close to the o not eat, drink or smoke. d work clothing should not be allowed out of the inated clothing before re-use. operation of a facility should include review of ontrols, proper personal protective equipment, egowning and decontamination procedures, ene monitoring, medical surveillance and the strative controls.			

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	powder
Color	:	yellow
Odor	:	odorless
Odor 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	:	Not applicable
Flammability (solid, gas)	:	May form explosive dust-air mixture during processing, handling or other means.
Flammability (liquids)	:	No data available
Upper explosion limit / Upper	:	No data available



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flan	nmability limit			
	ver explosion limit / Lower nmability limit	:	No data available)
Vap	oor pressure	:	Not applicable	
Rel	ative vapor density	:	Not applicable	
Rel	ative density	:	No data available	9
Der	nsity	:	No data available	9
	ubility(ies) Water solubility	:	No data available	9
	tition coefficient: n-	:	Not applicable	
	anol/water oignition temperature	:	No data available	9
Dec	composition temperature	:	No data available	
	cosity Viscosity, kinematic	:	Not applicable	
Exp	losive properties	:	Not explosive	
Oxi	dizing properties	:	The substance o	r mixture is not classified as oxidizing.
Par	ticle size	:	No data available	

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 proce handling or other means. Can react with strong oxidizing agents.	ssing,
Conditions to avoid	Heat, flames and sparks. Avoid dust formation.	
Incompatible materials	Oxidizing agents	
Hazardous decomposition products	No hazardous decomposition products are know	∩.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Inhalation Skin contact Ingestion Eye contact



rsion	Revision Date: 10/16/2020		S Number: 082-00016	Date of last issue: 03/23/2020 Date of first issue: 09/30/2014
	e toxicity lassified based on availa	bla	information	
		bie	iniornation.	
Produ Acute	e oral toxicity	:		estimate: 2,200 mg/kg ulation method
<u>Com</u>	ponents:			
Cellu	lose:			
Acute	oral toxicity	:	LD50 (Rat): >	5,000 mg/kg
Acute	inhalation toxicity	:	LC50 (Rat): > Exposure time Test atmosph	
Acute	e dermal toxicity	:	LD50 (Rabbit): > 2,000 mg/kg
Losa	rtan-			
	Losartan: Acute oral toxicity		LD50 (Mouse): 1,257 - 1,590 mg/kg
			LDLo (Rat): 2	00 mg/kg
			LDLo (Mouse): 400 mg/kg
Starc	h:			
Acute	oral toxicity	:	LD50 (Rat): >	5,000 mg/kg
Acute	e dermal toxicity	:	LD50 (Rabbit): > 2,000 mg/kg
Hydro	ochlorothiazide:			
Acute	oral toxicity	:	LD50 (Rat): >	2,750 mg/kg
			LD50 (Mouse): > 2,830 mg/kg
	toxicity (other routes of nistration)	:	LD50 (Rat): 9 Application R	90 mg/kg oute: Intravenous
			LD50 (Mouse Application R): 590 mg/kg oute: Intravenous
-	corrosion/irritation lassified based on availa	ble	information.	
Com	oonents:			
Losa	rtan:			
Speci Resul		:	Rabbit Mild skin irrita	tion

Hydrochlorothiazide:



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Speci Resul		: Rabbit : No skin irritatior	1
Serio	us eye damage/eye	irritation	
Cause	es serious eye damaç	je.	
<u>Comp</u>	oonents:		
Losa	rtan:		
Speci		: Rabbit	
Resul	t	: Severe irritation	
Starc	h:		
Speci		: Rabbit	
Resul	lt	: No eye irritation	
Hydro	ochlorothiazide:		
Speci		: Rabbit	
Resul	t	: Mild eye irritatio	n
Resp	iratory or skin sensi	tization	
Skin	sensitization		
May o	ause an allergic skin	reaction.	
Resp	iratory sensitization		
Not cl	assified based on ava	ailable information.	
<u>Com</u>	oonents:		
Losa	rtan:		
Test 7	Гуре	: Maximization Te	est
	es of exposure	: Skin contact	
Speci	es ssment	: Guinea pig	vidence of skin sensitization in humans
Resul		: positive	
Starc	h.		
Test 7		: Maximization Te	est
Route	es of exposure	: Skin contact	
Speci		: Guinea pig	
Resul	IT	: negative	
Germ	cell mutagenicity		
Not cl	assified based on ava	ailable information.	
Com	<u>oonents:</u>		
<u>00111</u>			
Cellu	lose:		



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			Type: In viti Ilt: negative	ro mammalian cell gene mutation test
Geno	otoxicity in vivo	cytog Spec Appli	genetic assa ies: Mouse	malian erythrocyte micronucleus test (in vivo yy) e: Ingestion
Losa	artan:			
	otoxicity in vitro		Type: in vitr Ilt: negative	o test
		Test		ro mammalian cell gene mutation test inese hamster ovary cells
			Type: Alkali ılt: negative	ine elution assay
			Type: Chroi Ilt: negative	mosomal aberration
Geno	otoxicity in vivo		Type: Chroi ilt: negative	mosomal aberration
Star	ch.			
	otoxicity in vitro		Type: Bacte Ilt: negative	erial reverse mutation assay (AMES)
Hvdr	ochlorothiazide:			
-	otoxicity in vitro		Type: Bacte Ilt: negative	erial reverse mutation assay (AMES)
		Test		mosomal aberration inese hamster ovary cells
		Test		chromatid exchange assay inese hamster ovary cells
		Test	Type: in vitr system: mo Ilt: positive	o test use lymphoma cells
Geno	otoxicity in vivo	Spec Cell t	Type: Chroi cies: Chines type: Bone r ilt: negative	
			Type: in viv ties: Mouse	o assay



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		Cell type: Bone Result: negative	
	n cell mutagenicity ssment	- : Weight of evide cell mutagen.	nce does not support classification as a germ
	inogenicity lassified based on	available information.	
<u>Com</u>	ponents:		
Cellu	llose:		
	cation Route sure time	: Rat : Ingestion : 72 weeks : negative	
Losa	rtan:		
	cation Route sure time	: Mouse : Oral : 92 weeks : 200 mg/kg body : negative	weight
	cation Route sure time	: Rat : Oral : 105 weeks : 270 mg/kg body : negative	r weight
Hydr	ochlorothiazide:		
Spec Appli	ies 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 fe : Oral : 2 Years : negative	emale
IARC	•	2B: Possibly carcinogenic to hlorothiazide	o humans 58-93-5
OSH		ponent of this product pres IA's list of regulated carcing	ent at levels greater than or equal to 0.1% is ogens.
NTP		-	nt at levels greater than or equal to 0.1% is



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	identified as a	a kn	own or anticipated	carcinogen by NTP.
May c	Dductive toxicity lamage the unborn child ause harm to breast-feo		ildren.	
<u>Comp</u>	oonents:			
Cellu Effect	lose: s on fertility	:	Test Type: One-g Species: Rat Application Route Result: negative	eneration reproduction toxicity study
Effect	s on fetal development	:	Test Type: Fertilit Species: Rat Application Route Result: negative	y/early embryonic development
Losar	rtan:			
Effect	s on fertility	:	Result: female re	ale : Oral 200 mg/kg body weight
Effect	s on fetal development	:	Developmental To Result: Embryoto	: Oral Maternal: NOAEL: 10 mg/kg body weight oxicity: NOAEL F1: 20 mg/kg body weight xic effects and adverse effects on the tected only at high maternally toxic doses,
Repro sessn	oductive toxicity - As- nent	:	Clear evidence of animal experimer	adverse effects on development, based on ts.
			Studies indicating period	a hazard to babies during the lactation
-	ochlorothiazide: s on fertility	:	Test Type: Fertilit	
			Species: Rat, ma Application Route	e and female



/ersion 3.4	Revision Date: 10/16/2020		0S Number: 082-00016	Date of last issue: 03/23/2020 Date of first issue: 09/30/2014
			Result: Effects or	n fertility.
			Test Type: Fertilit Species: Mouse, Application Route Fertility: NOAEL: Result: Effects or	male and female e: oral (feed) 100 mg/kg body weight
Effect	ts on fetal development	:	Test Type: Devel Species: Mouse Application Route Developmental T Result: No terato	e: Oral oxicity: NOAEL: 3,000 mg/kg body weight
			Test Type: Devel Species: Rat Application Route Developmental T Result: No terato	e: Oral oxicity: NOAEL: 1,000 mg/kg body weight
	F-single exposure lassified based on availa	able	information	
Caus May d		s (Bl	ood, Cardio-vascu	nd) through prolonged or repeated exposure. lar system, Stomach, Kidney) through pro-
•	oonents:			
Losa	rtan:			
Targe	es of exposure et Organs ssment	:		scular system, Stomach, Kidney ge to organs through prolonged or repeated
Hydr	ochlorothiazide:			
Targe	et Organs ssment	:	Kidney, Parathyro Causes damage exposure.	bid gland to organs through prolonged or repeated
Repe	ated dose toxicity			
Com	oonents:			
Cellu	lose:			
Speci		:	Rat	
	EL cation Route sure time	:	>= 9,000 mg/kg Ingestion 90 Days	
Losa	rtan:			
Speci		:	Rat	



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Expos Numb	L cation Route sure time ber of exposures of Organs	: 15 mg/kg : Oral : 309 d : daily : Blood, Kidney,	Cardio-vascular system, Stomach
	EL cation Route sure time	: Dog : 5 mg/kg : Oral : 1 Months : Salivation, Vom	iting
Expos	L cation Route sure time per of exposures	: Dog : 25 mg/kg : Oral : 53 Weeks : daily : Salivation, Vom	iting
	es EL cation Route sure time	: Rat : >= 2,000 mg/kg : Skin contact : 28 Days : OECD Test Gu	
Speci LOAE Applic Expos		: Rat, male and f : 10 mg/kg : Oral : 2 y : Kidney, Parathy	
	EL cation Route sure time	: Mouse, male ar : 300 - 550 mg/kg : Oral : 2 y : No significant a	
Expos Targe	es cation Route sure time et Organs	: Dog : 50 - 200 mg/kg : Oral : 9 Months : Parathyroid gla	nd

Aspiration toxicity

Not classified based on available information.

Components:

Losartan:

No aspiration toxicity classification



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-	ochlorothiazide: spiration toxicity classific	atio	n	
Expe	rience with human exp	osi	ire	
<u>Com</u>	ponents:			
Losa	rtan:			
Eye c Inges	contact tion	:	Symptoms: Eye i Symptoms: hypo	rritation tension, tachycardia
Hydr	ochlorothiazide:			
Eye c Inges	contact tion	:		rritation ness, Headache, Fatigue, Nausea, Ab- potension, dry mouth, electrolyte imbalance
	12. ECOLOGICAL INF	URI	ATION	
Ecoto	oxicity			
<u>Com</u>	ponents:			
Cellu	lose:			
Toxic	ity to fish	:	Exposure time: 4	tipes (Japanese medaka)): > 100 mg/l 8 h on data from similar materials
Toxic Losa		:	Exposure time: 4	8 h
Losa		:	Exposure time: 4 Remarks: Based	8 h on data from similar materials chus mykiss (rainbow trout)): > 929 mg/l 6 h
Losa Toxic Toxic	rtan:	:	Exposure time: 4 Remarks: Based LC50 (Oncorhyne Exposure time: 9 Method: FDA 4.1 EC50 (Daphnia n Exposure time: 4	8 h on data from similar materials chus mykiss (rainbow trout)): > 929 mg/l 6 h 1 nagna (Water flea)): 331 mg/l

NOEC (Selenastrum capricornutum (green algae)): 143 mg/l Exposure time: 10 d Method: FDA 4.01

Toxicity to fish (Chronic tox-
icity):NOEC (Pimephales promelas (fathead minnow)): 10 mg/l
Exposure time: 32 d
Method: OECD Test Guideline 210Toxicity to daphnia and other
aquatic invertebrates (Chron-
ic toxicity):NOEC (Daphnia magna (Water flea)): 100 mg/l
Exposure time: 21 d
Method: OECD Test Guideline 211

Method: FDA 4.01



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Hydro	ochlorothiazide:			
-	ity to fish	:	LC50 (Pimephale Exposure time: 96	s promelas (fathead minnow)): > 500 mg/l 6 h
	ity to daphnia and other ic invertebrates	:	EC50 (Daphnia m Exposure time: 4	nagna (Water flea)): > 500 mg/l 3 h
Persi	stence and degradabil	ity		
<u>Comp</u>	ponents:			
Cellu	lose:			
Biode	gradability	:	Result: Readily b	odegradable.
Losa	rtan:			
	ity in water	:	Hydrolysis: < 10 9	%(5 d)
Hydro	ochlorothiazide:			
	ity in water	:	Hydrolysis: 46.2 9	%(96 h)
Bioad	cumulative potential			
Com	oonents:			
Losa	rtan:			
	ion coefficient: n- ol/water	:	log Pow: 1.2	
Mobil	lity in soil			
No da	ata available			
	adverse effects			
No da	ata available			

Disposal methods		
Waste from residues Contaminated packaging	:	Dispose of in accordance with local regulations. Empty containers should be taken to an approved waste handling site for recycling or disposal. If not otherwise specified: Dispose of as unused product.

SECTION 14. TRANSPORT INFORMATION

International Regulations

UNRTDG

Not regulated as a dangerous good

IATA-DGR

Not regulated as a dangerous good

IMDG-Code



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Not regulated as a dangerous good

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable for product as supplied.

Domestic regulation

49 CFR

Not regulated as a dangerous good

SECTION 15. REGULATORY INFORMATION

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards	Combustible dust Respiratory or skin sensitization Reproductive toxicity Specific target organ toxicity (single or repeated exposure) Serious eye damage or eye irritation
SARA 313	This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

US State Regulations

Pennsylvania Right To Know 9004-34-6 Cellulose 9004-34-6 D-Glucose, 4-O-.beta.-D-galactopyranosyl-, monohydrate 64044-51-5 Losartan 124750-99-8 Starch 9005-25-8 Hydrochlorothiazide 58-93-5

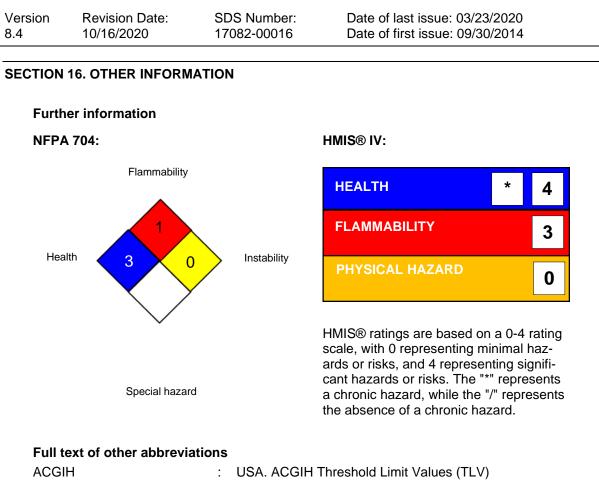
 Cellulose
 9004-34-6

 Starch
 9005-25-8

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

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





ACGIN	
NIOSH REL	: USA. NIOSH Recommended Exposure Limits
OSHA Z-1	: USA. Occupational Exposure Limits (OSHA) - Table Z-1 Lim-
	its for Air Contaminants
ACGIH / TWA	: 8-hour, time-weighted average
NIOSH REL / TWA	: Time-weighted average concentration for up to a 10-hour
	workday during a 40-hour workweek
OSHA Z-1 / TWA	: 8-hour time weighted average

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; 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; HMIS - Hazardous Materials Identification System; 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; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable



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Effect Loading Rate; 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; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

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

Revision Date : 10/16/2020

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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