

Olmesartan Formulation

Version 1.9	Revision Date: 10.10.2020		S Number: 7971-00010	Date of last issue: 13.09.2019 Date of first issue: 01.06.2016
SECTION	1. PRODUCT AND COM	MPA	NY IDENTIFICA	TION
Prod	uct name	:	Olmesartan For	mulation
Man	ufacturer or supplier's c	deta	ils	
Com		:	Organon & Co.	
Addr	ess	:	30 Hudson Stre Jersey City, Nev	et, 33nd floor w Jersey, U.S.A 07302
Telep	phone	:	551-430-6000	
Eme	rgency telephone number	r :	215-631-6999	
E-ma	ail address	:	EHSSTEWARD	@organon.com
	ommended use of the cl	hem		
Reco	mmended use	:	Pharmaceutical	
Repr GHS	Classification oductive toxicity label elements and pictograms	:	Category 1A	
Signa	al word	:	Danger	
Haza	and statements	:	H360D May dar	nage the unborn child.
Preca	autionary statements	:	P202 Do not ha and understood	ecial instructions before use. ndle until all safety precautions have been read onal protective equipment as required.
			Response: P308 + P313 IF attention.	exposed or concerned: Get medical advice/
			Storage: P405 Store lock	ed up.
			Disposal: P501 Dispose o disposal plant	f contents/ container to an approved waste

disposal plant.



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Other hazards which do not result in classification

Dust contact with the eyes can lead to mechanical irritation. Contact with dust can cause mechanical irritation or drying of the skin. May form explosive dust-air mixture during processing, handling or other means.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

SECTION 4. FIRST AID MEASURES

Chemical name	CAS-No.	Concentration (% w/w)
Olmesartan	144689-63-4	>= 0.3 -< 10
Cellulose	9004-34-6	< 10

General advice	:	In the case of accident or if you feel unwell, seek medical ad- vice immediately. When symptoms persist or in all cases of doubt seek medical advice.
If inhaled	:	If inhaled, remove to fresh air. Get medical attention.
In case of skin contact	:	In case of contact, immediately flush skin with soap and plenty of water. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.
In case of eye contact	:	If in eyes, rinse well with water.
If swallowed	:	Get medical attention if irritation develops and persists. If swallowed, DO NOT induce vomiting. Get medical attention. Rinse mouth thoroughly with water.
Most important symptoms and effects, both acute and delayed	:	May damage the unborn child. Contact with dust can cause mechanical irritation or drying of the skin.
Protection of first-aiders	:	Dust contact with the eyes can lead to mechanical irritation. First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment when the potential for exposure exists (see section 8).
Notes to physician	:	Treat symptomatically and supportively.

SECTION 5. FIREFIGHTING 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.



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				Exposure to comb	pustion products may be a hazard to health.
	Hazard ucts	ous combustion prod-	:	Carbon 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.	
	Special for firef	l protective equipment ighters	:	Evacuate area. In the event of fire Use personal prot	e, wear self-contained breathing apparatus. ective equipment.
SEC	CTION 6	. ACCIDENTAL RELE	ASI	EMEASURES	
	Personal precautions, protec- tive equipment and emer- gency procedures		:		ective equipment. ing advice (see section 7) and personal pro- recommendations (see section 8).
	Environmental precautions		:	Retain and dispos	akage or spillage if safe to do so. se of contaminated wash water. should be advised if significant spillages
	Methods and materials for : containment and cleaning up		:	tainer for disposal Avoid dispersal of with compressed Dust deposits sho es, as these may leased into the atr Local or national r posal of this mate employed in the c mine which regula Sections 13 and 1	dust in the air (i.e., clearing dust surfaces

SECTION 7. HANDLING AND STORAGE

Technical measures	:	Static electricity may accumulate and ignite suspended dust causing an explosion. Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres.
Local/Total ventilation	:	If sufficient ventilation is unavailable, use with local exhaust ventilation.
Advice on safe handling	:	Do not get on skin or clothing. Do not breathe dust. Do not swallow. Avoid contact with eyes. Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure as-



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Hygie	ene measures	Keep container Keep away from Take precaution Take care to pre environment. If exposure to cl flushing systems place. When using do Wash contamina The effective op engineering con appropriate deg	ghtly closed. heration and accumulation. osed when not in use. heat and sources of ignition. ry measures against static discharges. ent spills, waste and minimize release to the emical is likely during typical use, provide eye and safety showers close to the working of eat, drink or smoke. ed clothing before re-use. ration of a facility should include review of ols, proper personal protective equipment, wning and decontamination procedures, monitoring, medical surveillance and the	
Cond	litions for safe storage	: Keep in properly Store locked up Keep tightly close	/ labelled containers.	
Mate	rials to avoid		h the following product types:	

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type	Control parame-	Basis
		(Form of	ters / Permissible	
		exposure)	concentration	
Olmesartan	144689-63-4	TWA	30 µg/m3 (OEB 3)	Internal
		Wipe limit	300 µg/100 cm ²	Internal
Cellulose	9004-34-6	TWA	10 mg/m3	AU OEL
	Further information: This value is for inhalable dust containing n			
	asbestos and < 1% crystalline silica			
		TWA	10 mg/m3	ACGIH

Engineering measures : All engineering controls should be implemented by facility design and operated in accordance with GMP principles to protect products, workers, and the environment. Containment technologies suitable for controlling compounds are required to control at source and to prevent migration of the compound to uncontrolled areas (e.g., open-face containment devices). Minimize open handling.

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	:	Particulates type
Hand protection		



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Ma	aterial	:	Chemical-resista	nt gloves
Eye p	Remarks Eye protection		 Consider double gloving. 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. 	
Skin and body protection		:	task being perfor posable suits) to	arments should be used based upon the med (e.g., sleevelets, apron, gauntlets, dis- avoid exposed skin surfaces. degowning techniques to remove potentially

SECTION 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



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	Density		:	No data available	9
	Solubili Wat	ty(ies) er solubility	:	No data available	
	Partitio octanol	n coefficient: n-	:	No data available	9
		nition temperature	:	No data available	9
	Decomposition temperature		:	No data available	9
	Viscosi Visc	ty cosity, kinematic	:	No data available	9
	Explosive properties		:	Not explosive	
	Oxidizii	ng properties	:	The substance o	r mixture is not classified as oxidizing.
	Molecu	lar weight	:	No data available	
	Particle	e size	:	No data available	9

SECTION 10. STABILITY AND REACTIVITY

Reactivity Chemical stability Possibility of hazardous reac- tions	:	Not classified as a reactivity hazard. Stable under normal conditions. May form explosive dust-air mixture during processing, han- dling or other means. Can react with strong oxidizing agents.
Conditions to avoid	:	Heat, flames and sparks. Avoid dust formation.
Incompatible materials	:	Oxidizing agents
Hazardous decomposition products	:	No hazardous decomposition products are known.

SECTION 11. TOXICOLOGICAL INFORMATION

Exposure routes	: Inhalation Skin contact Ingestion
	Eye contact
	Lyc contact

Acute toxicity

Not classified based on available information.

Product:

Acute oral toxicity	:	Acute toxicity estimate: > 2,000 mg/kg Method: Calculation method

Components:

Olmesartan:



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Acute	e oral toxicity	:	LD50 (Rat): > 2,00	00 mg/kg			
			LD50 (Mouse): > 2	2,000 mg/kg			
			LD50 (Dog): > 1,5	500 mg/kg			
Acute	e inhalation toxicity	:	Remarks: No data	a available			
Acute	e dermal toxicity	:	Remarks: No data	a available			
Cellu	llose:						
Acute	e oral toxicity	:	LD50 (Rat): > 5,00	00 mg/kg			
Acute	e inhalation toxicity	:	LC50 (Rat): > 5.8 Exposure time: 4 Test atmosphere:	h			
Acute	e dermal toxicity	:	LD50 (Rabbit): > 2	2,000 mg/kg			
-	Skin corrosion/irritation Not classified based on availa <u>Components:</u>		information.				
Com							
Olme	esartan:						
Rema	arks	:	No data available				
	Serious eye damage/eye irr Not classified based on availa						
Com	ponents:						
	esartan:						
Spec Resu		:	Rabbit Moderate eye irrit	ation			
Meth		:	Draize Test				
Resp	Respiratory or skin sensitisation						
	sensitisation						
Not c	lassified based on availa	able	information.				
-	iratory sensitisation lassified based on availa	able	information.				
Com	ponents:						
Olme	esartan:						
Expo Rema	sure routes arks	:	Skin contact No data available				



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Chror	nic toxicity		
Germ	cell mutagenicity		
Not cla	assified based on ava	ilable information.	
<u>Comp</u>	onents:		
Olmes	sartan:		
Genot	oxicity in vitro	: Test Type: B Result: nega	acterial reverse mutation assay (AMES) tive
		Test Type: M Result: nega	lutagenicity (in vitro mammalian cytogenetic tes tive
			hromosome aberration test in vitro Chinese hamster lung cells ive
		Test Type: M Result: nega	louse Lymphoma tive
Genot	oxicity in vivo	: Test Type: M Species: Mo Cell type: Bo Application F Result: nega	ne marrow Route: Oral
Germ Asses	cell mutagenicity - sment	: Weight of ev cell mutagen	idence does not support classification as a gern
Cellul	ose:		
Genot	oxicity in vitro	: Test Type: B Result: nega	acterial reverse mutation assay (AMES) tive
		Test Type: Ir Result: nega	n vitro mammalian cell gene mutation test tive
Genot	oxicity in vivo	cytogenetic a Species: Mo	use Route: Ingestion
	nogenicity assified based on ava	ilable information.	
Comp	onents:		
	sartan:		

Result



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	ication Route	: Mouse : Oral : 6 Months : negative	
Spec Appl	ication Route osure time	: Rat : Ingestion : 72 weeks : negative	
-	roductive toxicity damage the unborn child	J.	
<u>Con</u>	ponents:		
-	esartan: cts on fertility	: Test Type: Ferti Species: Rat Application Rou Fertility: NOAEL Result: No effect	te: Oral .: 1,000 mg/kg body weight
Effec	cts on foetal develop- t	Result: No terat Test Type: Deve Species: Rabbit Application Rou Dose: 1 milligran Result: No terat Test Type: Deve Species: Rat Application Rou Developmental Symptoms: Malt weight	te: Oral igram per kilogram ogenic effects elopment te: Oral m per kilogram ogenic effects elopment
•	roductive toxicity - As- ment	: Positive evidence human epidemic	ce of adverse effects on development from blogical studies.
Cell	ulose:		
Effec	cts on fertility	: Test Type: One Species: Rat Application Rou Result: negative	
Effe	cts on foetal develop-	: Test Type: Ferti	lity/early embryonic development





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ment		Ap	ecies: Rat plication Ro sult: negativ	ute: Ingestion /e
	- single exposure assified based on ava	ailable info	rmation.	
	- repeated exposur assified based on ava		rmation.	
Repe	ated dose toxicity			
<u>Comp</u>	oonents:			
Olme	sartan:			
Speci NOAE		: Ra		
-	cation Route	: 2,0 : Or)00 mg/kg al	
Expos	sure time	-	Months	
Rema	ırks	: No	significant	adverse effects were reported
Cellu	lose:			
Speci	es	: Ra	it	
NOAE			9,000 mg/k	g
	cation Route sure time		gestion Days	
Aspir	ation toxicity			
•	assified based on ava	ailable info	rmation.	
Expe	rience with human e	xposure		
<u>Comp</u>	oonents:			
Olme	sartan:			
	ontact		mptoms: Ey	
Ingest	tion		mptoms: hy	
				r cause harm to the unborn child. nan Evidence

Ecotoxicity

Components:

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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Persi	stence and degrada	bility		
<u>Comp</u>	oonents:			
Cellu				
Biode	gradability	: Result: Readily	v biodegradable.	
Bioad	cumulative potentia	al		
No da	ata available			
Mobil	lity in soil			
No da	ata available			
Other	r 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 han- dling 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

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.

National Regulations

ADG Not regulated as a dangerous good

SECTION 15. REGULATORY INFORMATION

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

Prohibition/Licensing Requirements

: There is no applicable prohibition, authorisation and restricted use requirements, including for carcinogens referred to in Schedule 10 of



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			the model WHS Act and Regula- tions.
The	components of this pro	oduct are repo	rted in the following inventories:
AICS	5	: not deter	nined
DSL		: not deter	mined
IECS	SC	: not deter	mined
	16. OTHER INFORMA		
	ner information		
Sour	sion Date ces of key data used to bile the Safety Data et	eChem F	20 echnical data, data from raw material SDSs, OECD ortal search results and European Chemicals Agen- echa.europa.eu/
Date	format	: dd.mm.y	ууу
Full	text of other abbreviati	ons	
ACG AU C			GIH Threshold Limit Values (TLV) Workplace Exposure Standards for Airborne Con- S.
	IH / TWA DEL / TWA		me-weighted average standard - time weighted average

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR -Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation: DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Tem-



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perature; 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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