

Version 2.1	Revision Date: 2020/10/10		S Number: 7983-00011	Date of last issue: 2020/03/23 Date of first issue: 2016/06/01
1. PRODU	JCT AND COMPANY IE	DENT	IFICATION	
Chen	nical product name	:	Olmesartan Fo	ormulation
	blier's company name, pany name of supplier		r ess and phone Organon & Co	
Addre	ess	:		reet, 33nd floor ew Jersey, U.S.A 07302
Telep	phone	:	551-430-6000	
E-ma	il address	:	EHSSTEWAR	D@organon.com
Emer	gency telephone numbe	ər :	215-631-6999	
	mmended use of the ommended use	chem :		
2. HAZAR	DS IDENTIFICATION			
	classification of chem oductive toxicity	ical :	product Category 1A	
	label elements		•	
Haza	rd pictograms	:		
Signa	al word	:	Danger	
Haza	rd statements	:	H360D May da	amage the unborn child.
Preca	autionary statements	:	P202 Do not h and understoo	otective gloves/ protective clothing/ eye protec-
			Response: P308 + P313 I attention.	F exposed or concerned: Get medical advice/
			Storage: P405 Store loo	cked up.
			Disposal:	of contents/ container to an approved waste



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Other hazards which do not result in classification

Important symptoms and out- lines of the emergency as- sumed	:	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, han- dling or other means.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture	:	Mixture
O		

Components

Chemical name	CAS-No.	Concentration (% w/w)	ENCS No.
Cellulose	9004-34-6	>= 1 - < 10	
Olmesartan	144689-63-4	>= 1 - < 10	

4. FIRST AID MEASURES

General advice	:	In the case of accident or if you feel unwell, seek medical ad- vice immediately. When symptoms persist or in all cases of doubt seek medical advice.
If inhaled	:	If inhaled, remove to fresh air. 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. Get medical attention if irritation develops and persists.
If swallowed	:	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. Dust contact with the eyes can lead to mechanical irritation.
Protection of first-aiders	:	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.

5. FIREFIGHTING MEASURES

Suitable extinguishing media	:	Water spray
		Alcohol-resistant foam
		Carbon dioxide (CO2)
		Dry chemical
Unsuitable extinguishing	:	None known.



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•	media Specific hazards during fire- fighting		Avoid generating dust; fine dust dispersed in air in sufficoncentrations, and in the presence of an ignition source potential dust explosion hazard. Exposure to combustion products may be a hazard to here the source of the sou	
Hazaro ucts	lous combustion prod-	:	Carbon oxides	
Specifi ods	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 so. Evacuate area.	
	I protective equipment ighters	:	In the event of fire Use personal prot	e, wear self-contained breathing apparatus. ective equipment.
6. ACCIDE	NTAL RELEASE MEAS	SUF	RES	
tive eq	al precautions, protec- uipment and emer- procedures	:		ective equipment. ing advice (see section 7) and personal pro- recommendations (see section 8).
Enviro	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 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

7. HANDLING AND STORAGE

Handling	
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.



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	Avoidance of contact Hygiene measures		practice, based of sessment Keep container tig Minimize dust ger Keep container cl Keep away from h Take precautiona Take care to prev environment. Oxidizing agents If exposure to che flushing systems place. When using do no Wash contaminat The effective ope engineering contr appropriate dego	n eyes. ance with good industrial hygiene and safety in the results of the workplace exposure as- 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	
Storage					
Condition	Conditions for safe storage		 Keep in properly labelled containers. Store locked up. Keep tightly closed. Store in accordance with the particular national regulation 		
Materials	Materials to avoid : Do not store with the following product types: Strong oxidizing agents				
Packagir	ng material	:	Unsuitable materi	al: None known.	

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Threshold limit value and permissible exposure limits for each component in the work environment

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
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	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 con- tainment devices). Minimize open handling.
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Pers	onal protective equip	ment					
Fi	iratory protection Iter type protection	sure assessr 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				
M	aterial	: Chemical-res	Chemical-resistant gloves				
Eye p	emarks protection and body protection	If the work en mists or aero Wear a faces potential for aerosols. : Work uniform Additional bo task being pe posable suits	glasses with side shields or goggles. hvironment or activity involves dusty conditions, bools, wear the appropriate goggles. shield or other full face protection if there is a direct contact to the face with dusts, mists, or n or laboratory coat. bdy garments should be used based upon the erformed (e.g., sleevelets, apron, gauntlets, dis- s) to avoid exposed skin surfaces. late degowning techniques to remove potentially				

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	:	powder
Colour	:	No data available
Odour	:	No data available
Odour Threshold	:	No data available
Melting point/freezing point	:	No data available
Boiling point, initial boiling point and boiling range	:	No data available
Flammability (solid, gas)	:	May form explosive dust-air mixture during processing, han- dling or other means.
Flammability (liquids)	:	No data available
Lower explosion limit and upper Upper explosion limit / Upper flammability limit		xplosion limit / flammability limit No data available
Lower explosion limit / Lower flammability limit	:	No data available
Flash point	:	Not applicable
Decomposition temperature		No data available
	•	
рН	:	No data available



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E	vaporation rate	:	No data available	9
A	uto-ignition tempera	ature :	No data available	9
V	iscosity Viscosity, kinemat	tic :	No data available	2
S	olubility(ies) Water solubility	:	No data available	9
	Partition coefficient: n- octanol/water		No data available	9
V	apour pressure	:	No data available	9
	ensity and / or relat elative density	ive density :	No data available	9
D	ensity	:	No data available	9
R	elative vapour dens	sity :	No data available	9
E	Explosive properties		Not explosive	
O	exidizing properties	:	The substance o	r mixture is not classified as oxidizing.
N	lolecular weight	:	No data available	9
	article characteristic article size	cs :	No data available	2

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.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of	:	Inhalation
exposure		Skin contact
		Ingestion
		Eye contact



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	e toxicity lassified based on ava	ilable information.
<u>Produ</u> Acute	uct: oral toxicity	: Acute toxicity estimate: > 2,000 mg/kg Method: Calculation method
<u>Com</u>	oonents:	
Cellu	lose:	
Acute	oral toxicity	: LD50 (Rat): > 5,000 mg/kg
Acute	inhalation toxicity	: LC50 (Rat): > 5.8 mg/l Exposure time: 4 h Test atmosphere: dust/mist
Acute	e dermal toxicity	: LD50 (Rabbit): > 2,000 mg/kg
Olme	sartan:	
Acute	oral toxicity	: LD50 (Rat): > 2,000 mg/kg
		LD50 (Mouse): > 2,000 mg/kg
		LD50 (Dog): > 1,500 mg/kg
Acute	inhalation toxicity	: Remarks: No data available
Acute	dermal toxicity	: Remarks: No data available
Not cl	corrosion/irritation assified based on ava	ilable information.
	<u>oonents:</u> sartan:	
Rema		: No data available
	us eye damage/eye assified based on ava	
<u>Com</u>	oonents:	
	sartan:	
Speci Resul		: Rabbit : Moderate eye irritation
Metho		: Draize Test
Resp	iratory or skin sensi	isation
Skin	sensitisation	
Not cl	assified based on ava	ilable information.



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	espiratory sensitisation t classified based on availa	able	information.	
<u>Cc</u>	omponents:			
OI	mesartan:			
	posure routes marks	:	Skin contact No data available	
	erm cell mutagenicity at classified based on availa	able	information.	
<u>Cc</u>	omponents:			
Ce	Ilulose:			
Ge	enotoxicity in vitro	:	Test Type: Bacter Result: negative	ial reverse mutation assay (AMES)
			Test Type: In vitro Result: negative	mammalian cell gene mutation test
Ge	enotoxicity in vivo	:	Test Type: Mamm cytogenetic assay Species: Mouse Application Route Result: negative	
0	mesartan:			
	enotoxicity in vitro	:	Test Type: Bacter Result: negative	ial reverse mutation assay (AMES)
			Test Type: Mutag Result: negative	enicity (in vitro mammalian cytogenetic test)
				nosome aberration test in vitro nese hamster lung cells
			Test Type: Mouse Result: negative	e Lymphoma
Ge	enotoxicity in vivo	:	Test Type: Micror Species: Mouse Cell type: Bone m Application Route Result: negative	arrow
	erm cell mutagenicity - sessment	:	Weight of evidenc	e does not support classification as a germ

Carcinogenicity

Not classified based on available information.



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Comp	oonents:		
Cellul	ose:		
Specie		: Rat	
	ation Route	: Ingestion	
	sure time	: 72 weeks	
Resul	t	: negative	
Olme	sartan:		
Specie	es	: Rat	
Applic	ation Route	: Oral	
Expos	sure time	: 2 Years	
Resul	t	: negative	
Specie		: Mouse	
	ation Route	: Oral	
Resul	sure time	: 6 Months : negative	
Resul	L	. negative	
Repro	oductive toxicity		
May d	lamage the unborn ch	ild.	
<u>Comp</u>	oonents:		
Cellul	ose:		
Effect	s on fertility	: Test Type: O	ne-generation reproduction toxicity study
		Species: Rat	
			coute: Ingestion
		Result: nega	live
	s on foetal develop-		ertility/early embryonic development
ment		Species: Rat	
			toute: Ingestion
		Result: nega	live
Olme	sartan:		
Effect	s on fertility	: Test Type: F	
		Species: Rat	
		Application R	
			\EL: 1,000 mg/kg body weight fects on fertility
Effect: ment	s on foetal develop-	: Test Type: D Species: Rat	
ment		Application R	
			nilligram per kilogram
			ratogenic effects
		Test Type: D	evelopment
		Species: Rat	
		Application R	
			gram per kilogram
			ratogenic effects



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		Species: R Application Developme Symptoms weight	Development at Route: Oral ental Toxicity: LOAEL: >= 1.6 mg/kg body weight Malformations were observed., Reduced body ects on postnatal development
Repro sessr	oductive toxicity - As- nent		idence of adverse effects on development from demiological studies.
Not c STO Not c	 Γ - single exposure lassified based on ava Γ - repeated exposure lassified based on ava eated dose toxicity 	9	
Com	ponents:		
Spec NOAI Applie		: Rat : >= 9,000 m : Ingestion : 90 Days	ng/kg
Spec NOAI Applie	EL cation Route sure time	: Rat : 2,000 mg/k : Oral : 24 Months : No significa	g ant adverse effects were reported
-	ration toxicity lassified based on ava	ilable information.	
Expe	rience with human e	cposure	
Com	ponents:		

Olmesartan:		
Eye contact	: Sym	ptoms: Eye irritation
Ingestion	Rem	ptoms: hypotension narks: May cause harm to the unborn child. ed on Human Evidence



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2. ECOL	OGICAL INFORMATI	ON	
Ecoto	oxicity		
Com	ponents:		
Cellu	lose:		
Toxic	ity to fish	Exposure time:	latipes (Japanese medaka)): > 100 mg/l 48 h ed on data from similar materials
Persi	stence and degradal	oility	
<u>Com</u>	ponents:		
Cellu	lose:		
Biode	egradability	: Result: Readily	biodegradable.
Bioad	ccumulative potentia	I	
No da	ata available		
Mobi	lity in soil		
No da	ata available		
	rdous to the ozone la pplicable	ayer	
Othe	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.

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.



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National Regulations

Refer to section 15 for specific national regulation.

15. REGULATORY INFORMATION

Related Regulations

Fire Service Law

Not applicable to dangerous materials / designated flammables.

Chemical Substance Control Law

Not applicable for Specified Chemical Substance, Monitoring Chemical Substance and Priority Assessment Chemical Substance.

Industrial Safety and Health Law

Harmful Substances Prohibited from Manufacture

Not applicable

Harmful Substances Required Permission for Manufacture

Not applicable

Substances Prevented From Impairment of Health

Not applicable

Circular concerning Information on Chemicals having Mutagenicity - Annex 2: Information on Existing Chemicals having Mutagenicity

Not applicable

Circular concerning Information on Chemicals having Mutagenicity - Annex 1: Information on Notified Substances having Mutagenicity

Not applicable

Substances Subject to be Notified Names

Not applicable

Substances Subject to be Indicated Names

Not applicable

Ordinance on Prevention of Hazards Due to Specified Chemical Substances

Not applicable

Ordinance on Prevention of Lead Poisoning

Not applicable

Ordinance on Prevention of Tetraalkyl Lead Poisoning

Not applicable

Ordinance on Prevention of Organic Solvent Poisoning

Not applicable

Enforcement Order of the Industrial Safety and Health Law - Attached table 1 (Dangerous Substances)

Not applicable

Poisonous and Deleterious Substances Control Law Not applicable



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Act on Confirmation, etc. of Release Amounts of Specific Chemical Substances in the En- vironment and Promotion of Improvements to the Management Thereof Not applicable								
-	High Pressure Gas Safety Act Not applicable							
•	Explosive Control Law Not applicable							
	Vessel Safety Law Not regulated as a dangerous good							
	Aviation Law Not regulated as a dangerous good							
Mari	Marine Pollution and Sea Disaster Prevention etc Law							
Bulk	transportation	:	Not classified as i	noxious liquid substance				
Pack	<pre>k transportation</pre>	:	Not classified as	marine pollutant				
Narc Not a	Narcotics and Psychotropics Control Act Narcotic or Psychotropic Raw Material (Export / Import Permission) Not applicable							
	Specific Narcotic or Psychotropic Raw Material (Export / Import permission) Not applicable							
	Waste Disposal and Public Cleansing Law Industrial waste							
The AICS		oduo :	ct are reported in t not determined	the following inventories:				
DSL		:	not determined					
IECS	SC	:	not determined					
16. OTH	16. OTHER INFORMATION							
Sou	her information rces of key data used to pile the Safety Data et	:		data, data from raw material SDSs, OECD arch results and European Chemicals Agen- ropa.eu/				

Date format	:	yyyy/mm/dd			
Full text of other abbreviations					
ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)			
ACGIH / TWA	:	8-hour, 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



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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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