

Version 4.1	Revision Date: 10.10.2020		8 Number: 525-00012	Date of last issue: 23.03.2020 Date of first issue: 07.01.2016
SECTION	1. PRODUCT AND C	OMPA		TION
Produ	Product name		Olmesartan / A	mlodipine Besylate Formulation
Manu	ufacturer or supplier'	s detai	S	
Com	Company		Organon & Co.	
Addre	ess	:	Rua Treze de l Campinas, São	Maio, 1161 9 Paulo, Brazil B-2220
Telep	phone	:	551-430-6000	
Emer	rgency telephone	:	215-631-6999	
E-ma	E-mail address		EHSSTEWARD@organon.com	
Reco	ommended use of the	e chemi	cal and restric	tions on use
Reco	mmended use	:	Pharmaceutica	l

#### SECTION 2. HAZARDS IDENTIFICATION

#### GHS Classification in accordance with ABNT NBR 14725 Standard

Acute toxicity (Oral)	:	Category 5
Eye irritation	:	Category 2A
Reproductive toxicity	:	Category 1A
Short-term (acute) aquatic hazard	:	Category 3
Long-term (chronic) aquatic hazard	:	Category 3

#### GHS label elements in accordance with ABNT NBR 14725 Standard

Hazard pictograms	:	
Signal Word	:	Danger
Hazard Statements	:	H303 May be harmful if swallowed. H319 Causes serious eye irritation. H360D May damage the unborn child. H412 Harmful to aquatic life with long lasting effects.
Precautionary Statements	:	<b>Prevention:</b> P201 Obtain special instructions before use. P264 Wash skin thoroughly after handling.

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### **Olmesartan / Amlodipine Besylate Formulation**

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			I release to the environme protective gloves/ protec rotection.	
			a POISON CENTER/ doct 13 If eye irritation persists	
Conta		e mechanical irritati	on or drying of the skin.	
May fo	orm explosive dust-air	mixture during pro	cessing, handling or othe	r means.
CTION	3. COMPOSITION/IN	FORMATION ON I	NGREDIENTS	
Cubat	onoo / Minterro	. Misterra		
Subst	ance / Mixture	: Mixture		
Comp	onents			
Chem	ical name	CAS-No.	Classification	Concentration (% w/w
Cellul	ose	9004-34-6		>= 30 -< 50
Olmes	sartan	144689-63-4	Acute toxicity (Oral), Category 4 Eye irritation, Category 2B Reproductive toxicity, Category 1A	>= 10 -< 20
Amloc			•	

#### **SECTION 4. FIRST AID MEASURES**

Titanium dioxide

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, 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.

Carcinogenicity (Inha-

lation), Category 2

>= 0,1 -< 1

13463-67-7



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In c	ase of eye contact	Thoroughly cl : In case of con for at least 15	before reuse. ean shoes before reuse. tact, immediately flush eyes with plenty of water minutes.
lf sv	wallowed	Get medical a : If swallowed, Get medical a	DO NOT induce vomiting. ttention.
and	st important symptoms I effects, both acute and ayed	: May be harmf Causes seriou May damage	horoughly with water. ul if swallowed. us eye irritation. the unborn child. dust can cause mechanical irritation or drying of
Pro	tection of first-aiders	: First Aid responses and use the response	onders should pay attention to self-protection, ecommended personal protective equipment ential for exposure exists (see section 8).
Not	es to physician		natically and supportively.
SECTIO	N 5. FIRE-FIGHTING ME	ASURES	
Sui	table extinguishing media	: Water spray Alcohol-resist Carbon dioxid Dry chemical	
Uns	suitable extinguishing dia	: None known.	
Spe	ecific hazards during fire ting	concentrations potential dust	ing dust; fine dust dispersed in air in sufficient s, and in the presence of an ignition source is a explosion hazard. ombustion products may be a hazard to health.
Haz ucts	zardous combustion prod-	: Carbon oxides	\$
Spe ods	ecific extinguishing meth-	cumstances a Use water spr Remove unda so.	hing measures that are appropriate to local cir- ind the surrounding environment. ray to cool unopened containers. Imaged containers from fire area if it is safe to do
	ecial protective equipment fire-fighters		a. f fire, wear self-contained breathing apparatus. protective equipment.

#### SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- tive equipment and emer- gency procedures	:	Use personal protective equipment. Follow safe handling advice (see section 7) and personal protective equipment recommendations (see section 8).
Environmental precautions	:	Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages



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	ods and materials for ainment and cleaning up	:	container for disp Avoid dispersal o with compressed Dust deposits sho surfaces, as thes released into the Local or national disposal of this m employed in the o determine which Sections 13 and	uum up spillage and collect in suitable osal. f 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. Do not get in eyes. Wash skin thoroughly after handling. Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure assessment Keep container tightly closed. Minimize dust generation and accumulation. Keep container closed when not in use. Keep away from heat and sources of ignition.
		Take precautionary measures against static discharges. Take care to prevent spills, waste and minimize release to the environment.
Hygiene measures	:	If exposure to chemical is likely during typical use, provide eye flushing systems and safety showers close to the working place. When using do not eat, drink or smoke. Wash contaminated clothing before re-use.
		The effective operation of a facility should include review of engineering controls, proper personal protective equipment, appropriate degowning and decontamination procedures, industrial hygiene monitoring, medical surveillance and the use of administrative controls.
Conditions for safe storage		Keep in properly labeled containers. Store locked up. Keep tightly closed. Store in accordance with the particular national regulations.
Materials to avoid		Do not store with the following product types:



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Strong oxidizing agents Organic peroxides Explosives Gases

#### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ingreatents with workpla	oe oond of paramete	15		
Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Cellulose	9004-34-6	TWA	10 mg/m <sup>3</sup>	ACGIH
Olmesartan	144689-63-4	TWA	30 µg/m3 (OEB 3)	Internal
		Wipe limit	300 µg/100 cm <sup>2</sup>	Internal
Amlodipine Besylate	652969-01-2	TWA	20 µg/m3 (OEB 3)	Internal
		Wipe limit	100 µg/100 cm <sup>2</sup>	Internal
Titanium dioxide	13463-67-7	TWA	10 mg/m <sup>3</sup> (Titanium dioxide)	ACGIH

#### Ingredients with workplace control parameters

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 equipmen	t
Respiratory protection :	exposure assessment demonstrates exposures outside the recommended guidelines, use respiratory protection.
Filter type	Particulates type
Hand protection	
Material :	Chemical-resistant gloves
Remarks :	Consider double gloving.
Eye protection :	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 :	Work uniform or laboratory coat. Additional body garments should be used based upon the task being performed (e.g., sleevelets, apron, gauntlets, disposable suits) to avoid exposed skin surfaces. Use appropriate degowning techniques to remove potentially contaminated clothing.

#### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES



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	Appear	ance	:	powder	
	Color		:	No data available	9
	Odor		:	No data available	9
	Odor Th	nreshold	:	No data available	)
	рН		:	No data available	)
	Melting	point/freezing point	:	No data available	)
	Initial bo range	oiling point and boiling	:	No data available	
	Flash p	oint	:	Not applicable	
	Evapora	ation rate	:	Not applicable	
	Flamma	ability (solid, gas)	:	May form explosi handling or other	ve dust-air mixture during processing, means.
	Flamma	ability (liquids)	:	No data available	9
		explosion limit / Upper bility limit	:	No data available	3
		explosion limit / Lower bility limit	:	No data available	3
	Vapor p	pressure	:	Not applicable	
	Relative	e vapor density	:	Not applicable	
	Relative	e density	:	No data available	9
	Density		:	No data available	9
	Solubili Wat	ty(ies) er solubility	:	No data available	)
	Partition octanol	n coefficient: n-	:	Not applicable	
		ition temperature	:	No data available	
	Decom	position temperature	:	No data available	9
	Viscosi Visc	ty osity, kinematic	:	Not applicable	
	Explosi	ve properties	:	Not explosive	
	Oxidizir	ng properties	:	The substance of	r mixture is not classified as oxidizing.



Particle size       x       No data available         ECTION 10. STABILITY AND REACTIVITY         Reactivity       x       Not classified as a reactivity hazard.         Chemical stability       x       Stable under normal conditions.         Possibility of hazardous reactivity       x       Stable under normal conditions.         Possibility of hazardous reactivity hazard.       x       Stable under normal conditions.         Possibility of hazardous reactivity hazard.       x       Stable under normal conditions.         Possibility of hazardous reactivity hazard.       x       Stable under normal conditions.         Conditions to avoid       x       Heat, flames and sparks.         Compatible materials       x       Oxidizing agents         Hazardous decomposition       x       No hazardous decomposition products are known.         producti       x       No hazardous decomposition products are known.         Producti       x       Acute toxicity         May be harmful if swallowed.       x       Kertoxicity estimate: 3.354 mg/kg         Acute oral toxicity       x       Acute toxicity estimate: 3.354 mg/kg         Acute oral toxicity       x       LD50 (Rat): > 5.8 mg/l         Exposure time: 4 h       Test atmosphere: dust/mist         Acute oral toxicity <td< th=""><th>Version 4.1</th><th>Revision Date: 10.10.2020</th><th></th><th>S Number: 2525-00012</th><th>Date of last issue: 23.03.2020 Date of first issue: 07.01.2016</th></td<>	Version 4.1	Revision Date: 10.10.2020		S Number: 2525-00012	Date of last issue: 23.03.2020 Date of first issue: 07.01.2016
Reactivity       :       Not classified as a reactivity hazard.         Chemical stability       :       Stable under normal conditions.         Possibility of hazardous reactions       :       May form explosive dust-air mixture during processing, handling or other means.         Conditions to avoid       ::       Heat, flames and sparks. Avoid dust formation.         Incompatible materials       ::       Oxidizing agents         Hazardous decomposition       ::       No hazardous decomposition products are known.         products       :       Inhalation         ECTION 11. TOXICOLOGICAL INFORMATION       Information on likely routes of :       Inhalation         hays be harmful if swallowed.       :       Ingestion         Eye contact       :       Acute toxicity         May be harmful if swallowed.       :       :         Product:       :       :       Acute toxicity estimate: 3.354 mg/kg         Acute oral toxicity       :       LD50 (Rat): > 5.000 mg/kg         Acute oral toxicity       :       LD50 (Rat): > 5.000 mg/kg         Acute oral toxicity       :       LD50 (Rat): > 5.000 mg/kg         Acute oral toxicity       :       LD50 (Rat): > 2.000 mg/kg         Acute oral toxicity       :       LD50 (Rat): > 2.000 mg/kg         LD50	Partic	le size	:	No data availa	able
Chemical stability       :       Stable under normal conditions.         Possibility of hazardous reactions       :       May form explosive dust-air mixture during processing, handling 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       :       No hazardous decomposition products are known.         products       :       No hazardous decomposition products are known.         ECTION 11. TOXICOLOGICAL INFORMATION       Information on likely routes of :       Inhalation         Skin contact       Ingestion       Eye contact         Acute toxicity       :       Acute toxicity estimate: 3.354 mg/kg         May be harmful if swallowed.       Eye contact       Ingestion         Product:       :       Acute toxicity estimate: 3.354 mg/kg         Acute oral toxicity       :       LD50 (Rat): > 5.000 mg/kg         Acute oral toxicity       :       LD50 (Rat): > 5.000 mg/kg         Acute oral toxicity       :       LD50 (Rat): > 2.000 mg/kg         Acute oral toxicity       :       LD50 (Rat): > 2.000 mg/kg         LD50 (Mouse): > 2.000 mg/kg       LD50 (Mouse): > 2.000 mg/kg         LD50 (Dog): > 1.500 mg/kg	SECTION	10. STABILITY AND RE	EAC	TIVITY	
Avoid dust formation.         Incompatible materials       :       Oxidizing agents         Hazardous decomposition       :       No hazardous decomposition products are known.         products       :       No hazardous decomposition products are known.         ECTION 11. TOXICOLOGICAL INFORMATION       Information on likely routes of Skin contact Ingestion Eye contact         Information on likely routes of exposure       Inhalation Skin contact Ingestion Eye contact         Acute toxicity       May be harmful if swallowed.         Product:       Acute oral toxicity       :         Acute oral toxicity       :       Acute toxicity estimate: 3.354 mg/kg Method: Calculation method         Components:       :       Method: Calculation method         Components:       :       LD50 (Rat): > 5.000 mg/kg         Acute oral toxicity       :       LD50 (Rat): > 5.8 mg/l Exposure time: 4 h Test atmosphere: dust/mist         Acute dermal toxicity       :       LD50 (Rabbit): > 2.000 mg/kg         Diffesartan:       :       LD50 (Rat): > 2.000 mg/kg         LD50 (Dog): > 1.500 mg/kg       LD50 (Dog): > 1.500 mg/kg         Acute inhalation toxicity       :       Remarks: No data available         Acute dermal toxicity       :       Remarks: No data available	Chem Possi	ical stability	:	Stable under May form exp handling or ot	normal conditions. losive dust-air mixture during processing, ther means.
Information on likely routes of exposureInhalation Skin contact Ingestion Eye contactAcute toxicitySkin contact Ingestion Eye contactMay be harmful if swallowed.Acute toxicity estimate: $3.354 \text{ mg/kg}$ Method: Calculation methodProduct: Acute oral toxicityAcute toxicity estimate: $3.354 \text{ mg/kg}$ Method: Calculation methodComponents: Calculation toxicityE LD50 (Rat): > 5.000 mg/kgAcute oral toxicityI LD50 (Rat): > 5.8 mg/l Exposure time: $4 \text{ h}$ Test atmosphere: dust/mistAcute dermal toxicityI LD50 (Ratbit): > 2.000 mg/kgOlmesartan: LD50 (Mouse): > 2.000 mg/kgAcute inhalation toxicityI LD50 (Mouse): > 2.000 mg/kgAcute inhalation toxicityI Remarks: No data available	Incom Hazai	patible materials dous decomposition	:	Avoid dust for Oxidizing age	rmation. ents
exposureSkin contact Ingestion Eye contactAcute toxicityKeye contactMay be harmful if swallowed.Product:Product:Acute oral toxicityfor the system of the system	SECTION	11. TOXICOLOGICAL I	NFC	ORMATION	
May be harmful if swallowed.Product:Acute oral toxicity: Acute toxicity estimate: 3.354 mg/kg Method: Calculation methodComponents:Cellulose:Acute oral toxicity: LD50 (Rat): > 5.000 mg/kgAcute inhalation toxicity: LC50 (Rat): > 5,8 mg/l Exposure time: 4 h Test atmosphere: dust/mistAcute dermal toxicity: LD50 (Rabbit): > 2.000 mg/kgMate oral toxicity: LD50 (Rat): > 2.000 mg/kgAcute oral toxicity: LD50 (Rat): > 2.000 mg/kgAcute oral toxicity: Remarks: No data availableAcute inhalation toxicity: Remarks: No data available		-	:	Skin contact Ingestion	
Acute oral toxicity: Acute toxicity estimate: 3.354 mg/kg Method: Calculation methodComponents:Cellulose:Acute oral toxicity: LD50 (Rat): > 5.000 mg/kgAcute inhalation toxicity: LC50 (Rat): > 5,8 mg/l Exposure time: 4 h Test atmosphere: dust/mistAcute dermal toxicity: LD50 (Rabbit): > 2.000 mg/kgOlmesartan:LD50 (Rat): > 2.000 mg/kg 		•			
Cellulose:Acute oral toxicity:LD50 (Rat): > 5.000 mg/kgAcute inhalation toxicity:LC50 (Rat): > 5,8 mg/l Exposure time: 4 h Test atmosphere: dust/mistAcute dermal toxicity:LD50 (Rabbit): > 2.000 mg/kgOlmesartan::LD50 (Rat): > 2.000 mg/kg LD50 (Mouse): > 2.000 mg/kgAcute oral toxicity:LD50 (Rat): > 2.000 mg/kg LD50 (Mouse): > 2.000 mg/kgAcute inhalation toxicity:Remarks: No data availableAcute dermal toxicity:Remarks: No data available			:		
Acute oral toxicity:LD50 (Rat): > 5.000 mg/kgAcute inhalation toxicity:LC50 (Rat): > 5,8 mg/l Exposure time: 4 h Test atmosphere: dust/mistAcute dermal toxicity:LD50 (Rabbit): > 2.000 mg/kgOlmesartan: Acute oral toxicity:LD50 (Rat): > 2.000 mg/kg LD50 (Mouse): > 2.000 mg/kgAcute oral toxicity:Remarks: No data availableAcute dermal toxicity:Remarks: No data available	<u>Com</u>	oonents:			
Acute inhalation toxicity:LC50 (Rat): > 5,8 mg/l Exposure time: 4 h Test atmosphere: dust/mistAcute dermal toxicity:LD50 (Rabbit): > 2.000 mg/kgOlmesartan: Acute oral toxicity:LD50 (Rat): > 2.000 mg/kg LD50 (Mouse): > 2.000 mg/kg LD50 (Dog): > 1.500 mg/kgAcute inhalation toxicity:Remarks: No data availableAcute dermal toxicity:Remarks: No data available	Cellu	lose:			
Exposure time: 4 h Test atmosphere: dust/mistAcute dermal toxicity:LD50 (Rabbit): > 2.000 mg/kgOlmesartan: Acute oral toxicity:LD50 (Rat): > 2.000 mg/kg LD50 (Mouse): > 2.000 mg/kg LD50 (Dog): > 1.500 mg/kgAcute inhalation toxicity:Remarks: No data availableAcute dermal toxicity:Remarks: No data available	Acute	oral toxicity	:	LD50 (Rat): >	5.000 mg/kg
Olmesartan: Acute oral toxicity:LD50 (Rat): > 2.000 mg/kg LD50 (Mouse): > 2.000 mg/kg LD50 (Dog): > 1.500 mg/kgAcute inhalation toxicity:Remarks: No data availableAcute dermal toxicity:Remarks: No data available	Acute	inhalation toxicity	:	Exposure time	:: 4 h
Acute oral toxicity:LD50 (Rat): > 2.000 mg/kgLD50 (Mouse): > 2.000 mg/kgLD50 (Dog): > 1.500 mg/kgAcute inhalation toxicity:Remarks: No data availableAcute dermal toxicity:Remarks: No data available	Acute	dermal toxicity	:	LD50 (Rabbit)	: > 2.000 mg/kg
Acute oral toxicity:LD50 (Rat): > 2.000 mg/kgLD50 (Mouse): > 2.000 mg/kgLD50 (Dog): > 1.500 mg/kgAcute inhalation toxicity:Remarks: No data availableAcute dermal toxicity:Remarks: No data available	Olme	sartan:			
LD50 (Dog): > 1.500 mg/kgAcute inhalation toxicity:Remarks: No data availableAcute dermal toxicity:Remarks: No data available	Acute	oral toxicity	:	LD50 (Rat): >	2.000 mg/kg
Acute inhalation toxicity:Remarks: No data availableAcute dermal toxicity:Remarks: No data available				LD50 (Mouse)	: > 2.000 mg/kg
Acute dermal toxicity : Remarks: No data available				LD50 (Dog): >	1.500 mg/kg
	Acute	inhalation toxicity	:	Remarks: No o	data available
Amlodipine Besylate:	Acute	dermal toxicity	:	Remarks: No o	data available
	Amlo	dipine Besylate:			



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Acute oral toxicity		:	LD50 (Rat): 39	93 mg/kg
Titan	ium dioxide:			
Acute	oral toxicity	:	LD50 (Rat): >	5.000 mg/kg
Acute	inhalation toxicity	:	LC50 (Rat): > Exposure time Test atmosphe Assessment: T tion toxicity	: 4 h
Skin	corrosion/irritation			
Not cl	assified based on ava	ailable	information.	
<u>Com</u>	oonents:			
Olme	sartan:			
Rema	ırks	:	No data availa	ble
Titan	ium dioxide:			
Speci Resul		:	Rabbit No skin irritatio	
Sorio	ua ava damagalava	irritati	on	
	us eye damage/eye es serious eye irritatio		UII	
	ponents:			
Olme	sartan:			
Speci		:	Rabbit	
Resul Metho		:	Moderate eye	irritation
weine	Ju		Draize Test	
Amlo	dipine Besylate:			
Speci		:	Rabbit	
Resul	t	:	Severe irritatio	n
Titan	ium dioxide:			
Speci		:	Rabbit	
Resul	t	:	No eye irritatio	n
Resp	iratory or skin sensi	tizatio	n	
-	sensitization	ailable	information	
	assified based on ava		information.	
Resp	iratory sensitization			

Not classified based on available information.



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<u>Com</u>	ponents:		
Olme	esartan:		
Route Rema	es of exposure arks	: Skin contact : No data avai	lable
Titan	ium dioxide:		
Test Route Speci Resu	es of exposure ies	<ul> <li>Local lymph</li> <li>Skin contact</li> <li>Mouse</li> <li>negative</li> </ul>	node assay (LLNA)
Germ	n cell mutagenicity		
Not c	lassified based on ava	ailable information.	
<u>Com</u>	ponents:		
Cellu	lose:		
Geno	toxicity 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
Geno	toxicity in vivo	cytogenetic a Species: Mo	use Route: Ingestion
Olme	esartan:		
Geno	toxicity in vitro	: Test Type: B Result: nega	acterial reverse mutation assay (AMES) tive
		Test Type: M Result: nega	lutagenicity (in vitro mammalian cytogenetic test) tive
			hromosome aberration test in vitro Chinese hamster lung cells ive
		Test Type: N Result: nega	louse Lymphoma tive
Geno	toxicity in vivo	: Test Type: M Species: Mo Cell type: Bo Application F Result: nega	ne marrow Route: Oral
	cell mutagenicity -	: Weight of ev cell mutagen	idence does not support classification as a germ .



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Amlo	dipine Besylate:		
	toxicity in vitro	: Test Type: Bao Result: negativ	cterial reverse mutation assay (AMES) /e
		Test Type: Chi Result: negativ	romosome aberration test in vitro /e
Titan	ium dioxide:		
Geno	toxicity in vitro	: Test Type: Bao Result: negativ	cterial reverse mutation assay (AMES) re
Geno	toxicity in vivo	: Test Type: In v Species: Mous Result: negativ	
	inogenicity lassified based on av	ailable information	
	ponents:		
	lose:		
Spec Appli	ies cation Route sure time	: Rat : Ingestion : 72 weeks : negative	
Olme	esartan:		
	cation Route sure time	: Rat : Oral : 2 Years : negative	
	ies cation Route sure time	: Mouse : Oral : 6 Months	
Resu		: negative	
Amlo	dipine Besylate:		
Spec		: Mouse	
	cation Route	: Oral	
	sure time	: 2 Years	
Resu	π	: negative	
Spec		: Rat	
	cation Route sure time	: Oral : 2 Years	
Resu		: negative	
Titan	ium dioxide:		
Spec		: Rat	
	100		



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M R	xposu lethod tesult temark	re time s		2 Years OECD Test Guide positive The mechanism o mans.	line 453 r mode of action may not be relevant in hu-
	arcino nent	genicity - Assess-	:	Limited evidence animals.	of carcinogenicity in inhalation studies with
Μ	lay da	uctive toxicity mage the unborn child <u>nents:</u>			
C	ellulo	Se.			
		on fertility	:	Test Type: One-g Species: Rat Application Route Result: negative	eneration reproduction toxicity study : Ingestion
E	ffects	on fetal development	:	Test Type: Fertility Species: Rat Application Route Result: negative	y/early embryonic development
0	Imesa	irtan:			
		on fertility	:	Test Type: Fertility Species: Rat Application Route Fertility: NOAEL: Result: No effects	: Oral 1.000 mg/kg body weight
E	ffects	on fetal development	:	Test Type: Develo Species: Rat Application Route Dose: 1000 milligr Result: No teratog	: Oral am per kilogram
				Test Type: Develo Species: Rabbit Application Route Dose: 1 milligram Result: No teratog	: Oral per kilogram
				Symptoms: Malfor weight	
	eprod essme	uctive toxicity - As- nt	:	Positive evidence human epidemiolo	of adverse effects on development from ogical studies.



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	odipine Besylate:			
Effec	Effects on fertility :		Species: Rat Application Ro	L: 10 mg/kg body weight
			Species: Rabb Application Ro	ute: Ingestion L: 25 mg/kg body weight
Effec	ts on fetal development	:	Species: Rat Application Ro Developmenta	bryo-fetal development ute: Ingestion I Toxicity: LOAEL: 10 mg/kg body weight on fetal development.
			Species: Rabb Application Ro Developmenta	
			Species: Mous Application Ro Developmenta Result: Effects	
STO	<b>F-single exposure</b>			
	lassified based on availa	able	information.	
	<b>F-repeated exposure</b> lassified based on availa	able	information.	
Repe	ated dose toxicity			
<u>Com</u>	ponents:			
Cellu	lose:			
		:	Rat >= 9.000 mg/k Ingestion 90 Days	g
Olme	sartan.			

### Olmesartan:

:	Rat
:	2.000 mg/kg
:	Oral
:	24 Months
	:



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Rema	irks	:	No significant a	adverse effects were reported
Amlo	dipine Besylate:			
	EL cation Route sure time	:	Rat 15 mg/kg Oral 90 d No significant a	adverse effects were reported
Titani	ium dioxide:			
		:	Rat 24.000 mg/kg Ingestion 28 Days	
		:	Rat 10 mg/m <sup>3</sup> inhalation (dus 2 y	t/mist/fume)
-	ation toxicity assified based on ava		nformation	
	rience with human e			
<u>Prod</u> u		•		
Inges	tion	:	Symptoms: Fa	tigue, Dizziness, Headache, Nausea
<u>Comp</u>	oonents:			
	sartan:			
Eye c Inges	ontact tion	:	Symptoms: Ey Symptoms: hy Remarks: May Based on Hum	potension cause harm to the unborn child.
Amlo	dipine Besylate:			
Eye c Inges	ontact tion	:	Symptoms: Se Symptoms: Na Edema, Palpita	usea, Abdominal pain, Fatigue, Headache,
CTION	12. ECOLOGICAL IN	IFORM	ATION	

Components:

Cellulose:

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

#### Amlodipine Besylate:



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Toxicity to fish		:	: LC50 (Pimephales promelas (fathead minnow)): 2,7 mg. Exposure time: 96 h				
	ity to daphnia and other ic invertebrates	:	EC50 (Daphnia r Exposure time: 4	magna (Water flea)): 3,2 mg/l l8 h			
Toxic plants	ity to algae/aquatic	:	IC50 (Pseudokirchneriella subcapitata (green algae)): 5,6 mg Exposure time: 72 h Method: OECD Test Guideline 201				
Titan	ium dioxide:						
Toxic	ity to fish	:	Exposure time: 9	chus mykiss (rainbow trout)): > 100 mg/l 96 h Fest Guideline 203			
	ity to daphnia and other ic invertebrates	:	EC50 (Daphnia r Exposure time: 4	magna (Water flea)): > 100 mg/l l8 h			
Toxic plants	ity to algae/aquatic	:	EC50 (Skeletone Exposure time: 7	ema costatum (marine diatom)): > 10.000 m '2 h			
Toxic	Toxicity to microorganisms		EC50: > 1.000 m Exposure time: 3 Method: OECD 1				
Persi	stence and degradabil	ity					
<u>Com</u>	oonents:						
Cellu	lose:						
Biode	gradability	:	Result: Readily b	biodegradable.			
Bioad	cumulative potential						
<u>Com</u>	oonents:						
Partiti	dipine Besylate: ion coefficient: n- ol/water	:	log Pow: 3				
	l <b>ity in soil</b> ata available						
	r <b>adverse effects</b> ata available						

#### Disposal methods

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



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SECTION	14. TRANSPORT IN	FORMATION	
Inter	national Regulations	5	
UNR Not re	<b>TDG</b> egulated as a danger	ous good	
	-DGR egulated as a danger	ous good	
-	<b>G-Code</b> egulated as a danger	ous good	
	sport in bulk accord	-	RPOL 73/78 and the IBC Code
Dom	estic regulation		
ANT	г		
	egulated as a danger	ous good	
Not r	egulated as a danger	•	
Not rose	15. REGULATORY I	INFORMATION	legislation specific for the substance o
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Not ro SECTION Safet mixto Natio Grou Titan	<b>15. REGULATORY I</b> <b>ty, health and enviro</b> <b>ure</b> anal List of Carcinoger p 2B: Possibly carcino ium dioxide I. List of chemicals co	INFORMATION	- (LINACH) 13463-67-7
Not ro SECTION Safet mixtu Natio Grou Titan Brazi Polico	<b>15. REGULATORY I</b> <b>ty, health and enviro</b> <b>ure</b> anal List of Carcinoger p 2B: Possibly carcino ium dioxide I. List of chemicals co	INFORMATION	- (LINACH) 13463-67-7
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Not ro SECTION Safet mixtu Natio Grou Titan Brazi Polica	15. REGULATORY I ty, health and enviro ure onal List of Carcinoger p 2B: Possibly carcino ium dioxide I. List of chemicals co e national Regulations	INFORMATION	- (LINACH) 13463-67-7 : Not applicable
Not re Not re SECTION Safet mixte Natio Grou Titan Brazi Police Inter The i	15. REGULATORY I ty, health and enviro ure onal List of Carcinoger p 2B: Possibly carcino ium dioxide I. List of chemicals co e national Regulations	INFORMATION INFORMATION Inic Agents for Humans Ogenic to humans Introlled by the Federal	- (LINACH) 13463-67-7 : Not applicable

#### **SECTION 16. OTHER INFORMATION**

#### Further information

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

#### Full text of other abbreviations

ACGIH

: USA. ACGIH Threshold Limit Values (TLV)



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ACGIH / TWA		: 8-hour, time-w	eighted 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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