

Version 2.9	Revision Date: 2021/04/09		S Number: 2592-00012	Date of last issue: 2020/10/10 Date of first issue: 2016/01/07
1. PROD	UCT AND COMPANY ID	ENT	IFICATION	
Proc	luct name	:	Olmesartan / Am	lodipine Besylate Formulation
Man	ufacturer or supplier's o	detai	Is	
Corr	ipany	:	Organon & Co.	
Addı	ress	:	JL Raya Pandaa Pandaan, Jawa ⊺	n KM. 48 Fimur - Indonesia
Tele	phone	:	551-430-6000	
Eme	rgency telephone number	r :	215-631-6999	
E-ma	ail address	:	EHSSTEWARD	2organon.com
Rec	ommended use of the cl	hem	ical and restriction	ons on use
Reco	ommended use	:	Pharmaceutical	
2. HAZA	RDS IDENTIFICATION			
GHS	Classification			
Serie tatio	ous eye damage/eye irri- n	:	Category 2A	
Rep	roductive toxicity	:	Category 1A	
Long haza	g-term (chronic) aquatic ard	:	Category 3	
GHS	label elements			
Haza	ard pictograms	:		!
Sign	al word	:	Danger	V
Haza	ard statements	:		rious eye irritation. age the unborn child.

Precautionary statements :

Prevention:

P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P264 Wash skin thoroughly after handling.
P273 Avoid release to the environment.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

H412 Harmful to aquatic life with long lasting effects.



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		for several mir easy to do. Co P308 + P313 I attention.	+ P338 IF IN EYES: Rinse cautiously with water nutes. Remove contact lenses, if present and ontinue rinsing. IF exposed or concerned: Get medical advice/ If eye irritation persists: Get medical advice/ at-
		Storage: P405 Store loc	cked up.
		Disposal: P501 Dispose disposal plant.	of contents/ container to an approved waste
Conta	act with dust can cause	ot result in classificate e mechanical irritation mixture during proces	

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
Cellulose	9004-34-6	>= 30 -< 60
Olmesartan	144689-63-4	>= 10 -< 30
Amlodipine Besylate	652969-01-2	>= 2.5 -< 10
Titanium dioxide	13463-67-7	< 1

4. FIRST AID MEASURES

General advice	 In the case of accident or if you feel unwell, seek medical advice immediately. When symptoms persist or in all cases of doubt seek medical advice.
If inhaled	: If inhaled, 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	 In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lens, if worn. Get medical attention.
If swallowed	 If swallowed, DO NOT induce vomiting. Get medical attention. Rinse mouth thoroughly with water.



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Most important symptoms and effects, both acute and delayed		:	Causes serious May damage th Contact with du the skin.	
Prote	ection of first-aiders	:	First Aid respon and use the rec	ders should pay attention to self-protection, ommended personal protective equipment
Note	s to physician	:		tial for exposure exists (see section 8). atically and supportively.
5. FIREFI	GHTING MEASURES			
Suita	ble extinguishing media	:	Water spray Alcohol-resistar Carbon dioxide Dry chemical	
Unsu medi	iitable extinguishing a	:	None known.	
Spec fighti	ific hazards during fire- ng	:	concentrations, potential dust ex	g dust; fine dust dispersed in air in sufficient and in the presence of an ignition source is a kplosion hazard. nbustion products may be a hazard to health.
Haza ucts	ardous combustion prod-	:	Carbon oxides	
Spec ods	ific extinguishing meth-	:	cumstances and Use water spray	ng measures that are appropriate to local cir- d the surrounding environment. / to cool unopened containers. aged containers from fire area if it is safe to do
	ial protective equipment efighters	:	In the event of f	ire, wear self-contained breathing apparatus. rotective equipment.

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 pro- tective 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 cannot be contained.
Methods and materials for containment and cleaning up	:	Sweep up or vacuum up spillage and collect in suitable con- tainer for disposal. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). Dust deposits should not be allowed to accumulate on surfac- es, as these may form an explosive mixture if they are re- leased into the atmosphere in sufficient concentration. Local or national regulations may apply to releases and dis- posal of this material, as well as those materials and items



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		mine which re Sections 13 a	ne cleanup of releases. You will need to deter- gulations are applicable. nd 15 of this SDS provide information regarding r national requirements.			
7. HAND	LING AND STORAGE					
Technical measures		causing an ex Provide adequ	iate precautions, such as electrical grounding			
Local/Total ventilation			and bonding, or inert atmospheres. If sufficient ventilation is unavailable, use with local exhaust ventilation			
Adv	rice on safe handling	: Do not get on Do not breath Do not swallow Do not get in e Wash skin tho Handle in acco practice, base sessment Keep containe Keep containe Keep away fro Take precautio	Ν.			
	nditions for safe storage	: Keep in prope Store locked u Keep tightly cl Store in accor	osed. dance with the particular national regulations.			
Mat	erials to avoid	: Do not store v Strong oxidizi	vith the following product types: ng agents			

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Cellulose	9004-34-6	NAB	10 mg/m3	ID OEL
		TWA	10 mg/m3	ACGIH
Olmesartan	144689-63-4	TWA	30 µg/m3 (OEB 3)	Internal
		Wipe limit	300 µg/100 cm ²	Internal
Amlodipine Besylate	652969-01-2	TWA	20 µg/m3 (OEB 3)	Internal
		Wipe limit	100 µg/100 cm ²	Internal
Titanium dioxide	13463-67-7	NAB	10 mg/m3	ID OEL
	enough data to	Further information: Not classified as carcinogenic to humans. Not enough data to classify these materials as carcinogenic to hu- mans or animals		
		TWA	10 mg/m3	ACGIH



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				(Titanium dioxide)
Er	ngineering measures	:	design and opera protect products, Containment tech are required to co	
Pe	ersonal protective equipm	ent		
	espiratory protection Filter type and protection	:	sure assessment	exhaust ventilation is not available or expo- demonstrates exposures outside the rec- lines, use respiratory protection.
	Material	:	Chemical-resista	nt gloves
Ey	Remarks /e protection	:	If the work enviro mists or aerosols Wear a faceshield	gloving. ses with side shields or goggles. nment or activity involves dusty conditions, wear the appropriate goggles. d or other full face protection if there is a t contact to the face with dusts, mists, or
Sk	kin and body protection	:	Work uniform or I Additional body g task being perform posable suits) to	arments should be used based upon the ned (e.g., sleevelets, apron, gauntlets, dis- avoid exposed skin surfaces. legowning techniques to remove potentially
Ну	/giene measures	:	If exposure to che eye flushing syste ing place. When using do ne Wash contaminat The effective ope engineering contr appropriate dego	emical is likely during typical use, provide ems and safety showers close to the work- ot 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

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	powder
Colour	:	No data available
Odour	:	No data available
Odour Threshold	:	No data available
рН	:	No data available

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Olmesartan / Amlodipine Besylate Formulation

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Melti	ng point/freezing point	:	No data available	2
Initia rang	l boiling point and boiling e	:	No data available)
Flas	h point	:	Not applicable	
Evap	poration rate	:	Not applicable	
Flam	nmability (solid, gas)	:	May form explosi dling or other me	ve dust-air mixture during processing, han- ans.
Flam	mability (liquids)	:	No data available)
	er explosion limit / Upper mability limit	:	No data available)
	er explosion limit / Lower mability limit	:	No data available)
Vapo	our pressure	:	Not applicable	
Rela	tive vapour density	:	Not applicable	
Rela	tive density	:	No data available	9
Dens	sity	:	No data available	9
	bility(ies) /ater solubility	:	No data available	9
	tion coefficient: n-	:	Not applicable	
	nol/water -ignition temperature	:	No data available	9
Deco	omposition temperature	:	No data available	9
Visc V	osity iscosity, kinematic	:	Not applicable	
Expl	osive properties	:	Not explosive	
Oxid	izing properties	:	The substance of	r mixture is not classified as oxidizing.
Parti	cle size	:	No data available	9

10. STABILITY AND REACTIVITY

Reactivity Chemical stability		Not classified as a reactivity hazard. Stable under normal conditions.
Possibility of hazardous reac- tions	:	May form explosive dust-air mixture during processing, han- dling or other means.



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				Can react with st	rong oxidizing agents.
	Conditi	ons to avoid	:	Heat, flames and Avoid dust forma	
		atible materials ous decomposition ts	:	Oxidizing agents No hazardous de	composition products are known.
11. 1	гохісо	LOGICAL INFORMAT	101	N	
	Informa exposu	ation on likely routes of re	:	Inhalation Skin contact Ingestion Eye contact	
	Acute	toxicity			
		ssified based on availa	ble	information.	
	Produc Acute c	<u>st:</u> oral toxicity	:	Acute toxicity estine Method: Calculation	mate: > 2,000 mg/kg on method
	Compo	onents:			
	Cellulo	se:			
	Acute c	oral toxicity	:	LD50 (Rat): > 5,00	00 mg/kg
	Acute ii	nhalation toxicity	:	LC50 (Rat): > 5.8 Exposure time: 4 Test atmosphere:	h
	Acute c	lermal toxicity	:	LD50 (Rabbit): > 2	2,000 mg/kg
	Olmes	artan:			
	Acute c	oral toxicity	:	LD50 (Rat): > 2,00	00 mg/kg
				LD50 (Mouse): > 2	2,000 mg/kg
				LD50 (Dog): > 1,5	i00 mg/kg
	Acute ii	nhalation toxicity	:	Remarks: No data	a available
	Acute c	lermal toxicity	:	Remarks: No data	a available
	Amlad	ipine Besylate:			
		oral toxicity	:	LD50 (Rat): 393 n	ng/kg
		m dioxide: oral toxicity	:	LD50 (Rat): > 5,00	00 mg/kg
	Acute i	nhalation toxicity	:	LC50 (Rat): > 6.82 Exposure time: 4 Test atmosphere:	h



rsion)	Revision Date: 2021/04/09		OS Number: 2592-00012	Date of last issue: 2020/10/10 Date of first issue: 2016/01/07
			Assessment: T tion toxicity	he substance or mixture has no acute inhala
Skin	corrosion/irritation			
Not cl	assified based on av	ailable	information.	
Com	oonents:			
Olme	sartan:			
Rema	arks	:	No data availa	ble
Titan	ium dioxide:			
Speci Resul		:	Rabbit No skin irritatio	
Resu	I		NO SKIN IMIAUC	
Serio	us eye damage/eye	irritati	on	
Cause	es serious eye irritatio	on.		
<u>Comp</u>	oonents:			
Olme	sartan:			
Speci		:	Rabbit	
Resul Metho		:	Moderate eye Draize Test	irritation
Wieth				
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 sens	itisatic	n	
Skin	sensitisation			
Not cl	assified based on av	ailable	information.	
-	iratory sensitisation assified based on av		information	
	oonents:			
Olme	sartan:			
	sure routes	:	Skin contact	
Rema		:	No data availa	ble
Titani	ium dioxide:			
Test 7			Local lymph no	ode assay (LLNA)
	sure routes	:	Skin contact	
Speci			Mouse	



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	Result		:	negative	
		cell mutagenicity ssified based on avai	ilable	information.	
	<u>Compo</u>	onents:			
	Cellulo	ose:			
	Genoto	oxicity in vitro	:	Test Type: Bacte Result: negative	erial reverse mutation assay (AMES)
				Test Type: In vite Result: negative	o mammalian cell gene mutation test
	Genoto	oxicity in vivo	:	Test Type: Mam cytogenetic assa Species: Mouse Application Rout Result: negative	
	Olmes	artan:			
	Genoto	oxicity in vitro	:	Test Type: Bacte Result: negative	erial reverse mutation assay (AMES)
				Test Type: Muta Result: negative	genicity (in vitro mammalian cytogenetic test)
					mosome aberration test in vitro inese hamster lung cells
				Test Type: Mous Result: negative	e Lymphoma
	Genoto	oxicity in vivo	:	Test Type: Micro Species: Mouse Cell type: Bone Application Rout Result: negative	narrow
	Germ o Assess	cell mutagenicity -	:	Weight of evider cell mutagen.	ce does not support classification as a germ
	مسامط	ining Resultator			
		ipine Besylate: oxicity in vitro	:	Test Type: Bacte Result: negative	erial reverse mutation assay (AMES)
				Test Type: Chro Result: negative	mosome aberration test in vitro
	Titaniu	ım dioxide:			
		exicity in vitro	:	Test Type: Bacte	erial reverse mutation assay (AMES)



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		Result: negat	tive
Genot	toxicity in vivo	: Test Type: In Species: Mou Result: negat	
	nogenicity assified based on ava	lable information.	
Comp	oonents:		
Cellu	lose:		
	cation Route sure time	: Rat : Ingestion : 72 weeks : negative	
Olme	sartan:		
	cation Route sure time	: Rat : Oral : 2 Years : negative	
	cation Route sure time	: Mouse : Oral : 6 Months : negative	
Amlo	dipine Besylate:		
Speci Applic Expos Resul Speci Applic	es cation Route sure time t t es cation Route sure time	: Mouse : Oral : 2 Years : negative : Rat : Oral : 2 Years : negative	
Rooul		· nogativo	
Speci Applic	cation Route sure time od t	: 2 Years : OECD Test 0 : positive	ust/mist/fume) Guideline 453 Ism or mode of action may not be relevant in hu
Carcir ment	nogenicity - Assess-	: Limited evide animals.	ence of carcinogenicity in inhalation studies with

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-	oductive toxicity lamage the unborn chil	d.		
<u>Comp</u>	oonents:			
Cellul	ose:			
Effects	s on fertility	:	Test Type: One-g Species: Rat Application Route Result: negative	eneration reproduction toxicity study e: Ingestion
Effect: ment	s on foetal develop-	:	Test Type: Fertilit Species: Rat Application Route Result: negative	y/early embryonic development e: Ingestion
Olme	sartan:			
Effect	s on fertility	:	Test Type: Fertilit Species: Rat Application Route Fertility: NOAEL: Result: No effects	e: Oral 1,000 mg/kg body weight
Effect: ment	s on foetal develop-	:	Test Type: Develor Species: Rat Application Route Dose: 1000 millig Result: No terato	e: Oral ram per kilogram
			Test Type: Develor Species: Rabbit Application Route Dose: 1 milligram Result: No terator	e: Oral per kilogram
			Symptoms: Malfo weight	
Repro sessm	ductive toxicity - As- nent	:	Positive evidence human epidemiol	e of adverse effects on development from ogical studies.
Amlo	dipine Besylate:			
	s on fertility	:	Species: Rat Application Route	10 mg/kg body weight
			Test Type: Fertilit	y/early embryonic development



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Effects o ment	on foetal develop-	:	Result: No effects Test Type: Embry Species: Rat Application Route Developmental To Result: Effects or Test Type: Embry Species: Rabbit Application Route Developmental To Result: No effects Test Type: Embry Species: Mouse Application Route Developmental To Result: Effects or	25 mg/kg body weight s on fertility ro-foetal development :: Ingestion poricity: LOAEL: 10 mg/kg body weight foetal development ro-foetal development :: Ingestion poricity: NOAEL: 10 mg/kg body weight s on foetal development ro-foetal development

STOT - single exposure

Not classified based on available information.

STOT - repeated exposure

Not classified based on available information.

Repeated dose toxicity

Components:

Cellulose:

Species NOAEL Application Route Exposure time		Rat >= 9,000 mg/kg Ingestion 90 Days
Olmesartan:		
Species	:	Rat
NOAEL	:	2,000 mg/kg
Application Route	:	Oral
Exposure time	:	24 Months
Remarks	:	No significant adverse effects were reported
Amlodipine Besylate:		
Species	:	Rat
NOAEL	:	15 mg/kg
Application Route	:	Oral
Exposure time	:	90 d
Remarks	:	No significant adverse effects were reported



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Titan	ium dioxide:			
Speci		:	Rat	
NOAE		:	24,000 mg/kg	
	cation Route sure time	÷	Ingestion 28 Days	
Lypo		•	20 Days	
Speci		:	Rat	
NOAE		:	10 mg/m3	+ /f
	cation Route sure time	÷	inhalation (dust/r 2 yr	nist/tume)
Елро		•	<i>_</i> y.	
-	ation toxicity		information	
	assified based on availa			
Expe	rience with human exp	osi	ire	
Produ				
Inges	tion	:	Symptoms: Fatig	ue, Dizziness, Headache, Nausea
<u>Comp</u>	oonents:			
Olme	sartan:			
Eye c	ontact	:	Symptoms: Eye	rritation
Inges	tion	:	Symptoms: hypo	
			Remarks: May ca Based on Humar	ause harm to the unborn child. n Evidence
Amlo	dipine Besylate:			
	ontact	:	Symptoms: Seve	re irritation
Inges	tion	:		ea, Abdominal pain, Fatigue, Headache,
			Oedema, Palpita	tion
. ECOL	OGICAL INFORMATIO	N		
Ecoto	oxicity			
-	oonents:			
Comp				
<u>Com</u> Cellu				
Cellu		:		tipes (Japanese medaka)): > 100 mg/l
Cellu	lose:	:	Exposure time: 4	8 h
Cellu	lose:	:	Exposure time: 4	
Cellu Toxici	lose: ity to fish	:	Exposure time: 4	8 h
Cellu Toxici Amlo	lose: ity to fish dipine Besylate:		Exposure time: 4 Remarks: Based	8 h on data from similar materials
Cellu Toxici Amlo	lose: ity to fish		Exposure time: 4 Remarks: Based	8 h on data from similar materials es promelas (fathead minnow)): 2.7 mg/l
Cellu Toxici Amlo Toxici	lose: ity to fish dipine Besylate: ity to fish	:	Exposure time: 4 Remarks: Based LC50 (Pimephale Exposure time: 9	8 h on data from similar materials es promelas (fathead minnow)): 2.7 mg/l 6 h
Cellu Toxici Amlo Toxici	lose: ity to fish dipine Besylate: ity to fish ity to daphnia and other	:	Exposure time: 4 Remarks: Based LC50 (Pimephale Exposure time: 9 EC50 (Daphnia r	8 h on data from similar materials es promelas (fathead minnow)): 2.7 mg/l 6 h nagna (Water flea)): 3.2 mg/l
Cellu Toxici Amlo Toxici aquat	lose: ity to fish dipine Besylate: ity to fish ity to daphnia and other ic invertebrates	:	Exposure time: 4 Remarks: Based LC50 (Pimephale Exposure time: 9 EC50 (Daphnia r Exposure time: 4	8 h on data from similar materials es promelas (fathead minnow)): 2.7 mg/l 6 h nagna (Water flea)): 3.2 mg/l 8 h
Cellu Toxici Amlo Toxici aquat	lose: ity to fish dipine Besylate: ity to fish ity to daphnia and other ic invertebrates ity to algae/aquatic	:	Exposure time: 4 Remarks: Based LC50 (Pimephale Exposure time: 9 EC50 (Daphnia r Exposure time: 4	8 h on data from similar materials es promelas (fathead minnow)): 2.7 mg/l 6 h nagna (Water flea)): 3.2 mg/l 8 h chneriella subcapitata (green algae)): 5.6 m



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	Titaniu	ım dioxide:			
	Toxicity	∕ to fish	:	Exposure time: 9	chus mykiss (rainbow trout)): > 100 mg/l 6 h est Guideline 203
		/ to daphnia and other invertebrates	:	EC50 (Daphnia n Exposure time: 4	nagna (Water flea)): > 100 mg/l 8 h
	Toxicity plants	/ to algae/aquatic	:	EC50 (Skeletone Exposure time: 7	ma costatum (marine diatom)): > 10,000 mg/l 2 h
	Toxicity	<i>i</i> to microorganisms	:	EC50: > 1,000 m Exposure time: 3 Method: OECD T	
	Persist	tence and degradabili	ity		
	Compo	onents:			
	Cellulo Biodeg	ose: radability	:	Result: Readily b	iodegradable.
	Bioaco	umulative potential			
	Compo	onents:			
		ipine Besylate: n coefficient: n- /water	:	log Pow: 3	
		r y in soil a available			
		adverse effects a available			
13. E	DISPOS	AL CONSIDERATION	IS		
	Waste	al methods from residues ninated packaging	:	Empty containers dling site for recy	ordance with local regulations. should be taken to an approved waste han- cling or disposal. pecified: Dispose of as unused product.
14. T	RANS	PORT INFORMATION			
	Interna	tional Regulations			
	UNRT	-	go	od	
	IATA-E Not reg	DGR Julated as a dangerous	go	od	

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.

15. REGULATORY INFORMATION

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

Minister of Industry Regulation No. 23/M-IND/PER/4/2013 concerning the Revision of Minister of Industry Regulation No. 87/M-IND/PER/9/2009 concerning Globally Harmonized System of Classification and Labelling of Chemicals.

Regulation of the Minister of Health No. 472 of 1996 on the Safeguarding of Substances Hazardous to Health

Hazardous substances that must be registered : Not applicable

Government Regulation No. 74 of 2001 on the Management of Hazardous and Toxic Substances

Hazardous substances approved for use	:	Not applicable
Prohibited substances	:	Not applicable
Restricted substances	:	Not applicable

Regulation of the Minister of Trade No. 44 of 2009 on Procurement, Distribution and Supervision of Hazardous Materials

Type of Hazardous Materials Restricted to Import, : Not applicable Distribution and Supervision

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

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

16. OTHER INFORMATION

Further information

Sources of key data used to compile the 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/		
Date format	:	yyyy/mm/dd		
Full text of other abbreviations				
ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)		



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ID OEL		: Indonesia. Occupational Exposure Limits	
ACGIH / TWA ID OEL / NAB		8-hour, time-weighted averageLong term exposure limit	

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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